SERVICE MANUAL

AA-2 CHASSIS

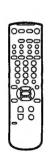
MODEL COMMA	NDER DEST.	CHASSIS NO.	MODEL	COMMANDER DEST. CHASSIS NO.
KV-27S20 RM-Y13	35 US	SCC-J71A-A	KV-32S20	RM-Y135 US SCC-J71C-A
KV-27S20 RM-Y13	35 Canadi	an SCC-J73A-A	KV-32S20	RM-Y135 Canadian SCC-J73B-A
KV-27S25 RM-Y13	36 US	SCC-J71B-A	KV-32S25	RM-Y136 US SCC-J71D-A
KV-27S25 RM-Y13	36 Canad	dian SCC-J73F-A	KV-32S25	RM-Y136 Canadian SCC-J73C-A
KV-29RS20 RM-Y13	35 E	SCC-J74A-A	KV-34RS20	OC RM-Y135 E SCC-J74G-A
KV-29RS20CRM-	Y135 E	SCC-J74E-A		
KV-29RS25 RM-Y13	36 E	SCC-J74B-A		
KV-29RS25CRM-	Y136 W	SCC-J74F-A		
KV-29SD1 RM-Y13	95 E	SCC-J74C-A		
KV-29PS1 RM-Y13	5 E	SCC-J74D-A		

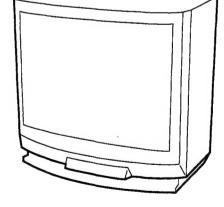
Note:

1. Adjustment Manual for this model is separately published.

	Adjustment Manual
Part No.	9-965-811-01









TRINITRON® COLOR TV
SONY®

※ Please file according to model size.











		podel rufutet du fai fai fai fai fai fai fai	44.24.35	Notes
Television		American TV standard		110.03
Channel c	coverage	VHF: 2-13 / UHF: 14-69 / CATV: 1-	-125	
Antenna		75-ohm external antenna terminal for	or VHF/UHF	
Picture tu	abe .	Hi Black Trinitron® tube		
Screen siz	ze (in.)	27	32	Measured diagonally
Number o	of inputs/outputs			
	Video	1	1	1 Vp-p, 75 ohms unbalanced, sync negative
	S video	0	0	Y: 1 Vp-p, 75 ohms unbalanced, synnegative C: 0.286 Vp-p (Burst signal), 75 ohms
	Audio	1	1	500 mVrms (100% modulation), Impedance: 47 kilohms
	Monitor out	0	0	1 Vp-p, 75 ohms unbalanced, sync negative
	Audio out	1	1	More than 408 mVrms at the maximum volume setting (variable) More than 408 mVrms (fix) Impedance: 5 kilohms
Speaker o	output (W)	5W×2	5W×2	
Power rec	quirements	a KV-27S20/29PS1/29RS20/ 29SD1	a KV-32520	a= 120V, 60 Hz b= 220 V, 50/60 Hz
		b KV-29RS20C	b KV-34RS20C	
Power cor	nsumption (W) When in use	160 W (Max.)	180 W (Max.)	
	In standby	9 W	9 W	
Dimension	ns (W/H/D) (mm) (in.)	$660.4 \times 602.5 \times 521.2 \text{ mm}$ $(26 \times 23^{3}/4 \times 20^{5}/8 \text{ in.})$	781 × 712.1 × 582.5 mm (30 ³ /4×28 ¹ /s × 23 in.)	
Mass	(kg) (lbs)	40.6 kg (89 lbs 8 oz)	64.3 kg (141 lbs 12 oz)	

Supplied accessories

Remote commander RM-Y135 (1) Size AA (R6) battery (2)

Optional accessories

Connecting cables VMC-810S/820S, VMC-720M, YC-15V/30V, RK-74A

TV stand SU-27A (KV-27S20/

/29PS1/29RS20/29RS20C/

29SD1/ only)

TV stand SU-32A (KV-32S20/34RS20C only)

U/V mixer EAC-66

Design and specifications are subject to change without notice.

(●)® SRS (SOUND RETRIEVAL SYSTEM)

The () SRS (SOUND RETRIEVAL SYSTEM) is manufactured by Sony Corporation under license from SRS Labs Inc. It is covered by U.S. Patent No. 4,748,669. Other U.S. and foreign patents pendeing.

The word 'SRS' and the SRS symbol (●) are registered trademarks of the SRS Labs, Inc.

Additional Information

31

Specifications

*	American	15			Ruiss	ST'S RUZZE
Television system	American	TV standar	·d			
Channel coverage	VHF: 2-13	/ UHF: 14	69 / CATV	: 1-125		
Antenna	75-ohm ex	ternal ante	nna termina	al for VHF/	'UHF	
Picture tube	Hi Black 7	Trinitron® to	ıbe			
Screen size (in.)	27-inch pi	cture meas	ared diagor	ally		
Power requirements	120 V, 60 Hz	120 V, 60 Hz	120 V, 60 Hz	120 V, 60 Hz	120 V, 60 Hz	220 V, 50/60Hz
Number of inputs/ outputs Video ¹⁾	2				2	2
S video ²⁾	1				1	1
Audio ²⁾	2				2	2
Audio out ⁴⁾	1	211 11121111			1	1
Monitor out ¹⁾	-				-	_
TV out ¹⁾	-				-	_
S-Link	_				-	
Speaker output (W)	5W×2				5W×2	5W×2
Power consumption (W) When in use (Max.) In standby	165W 9W				165W 9W	165W 9W
Dimensions (W/H/D) (mm) (in.)	660.4 × 602.5 × 521.2 mm 26 × 23 ³ /4 × 20 ⁵ /s in.				660.4 × 602.5 × 521.2 mm 26 × 23 ³ /4 × 20 ⁵ /s in.	660.4 × 602.5 × 521.2 mm 26 × 23 3/4 × 20 5/8 in.
Mass (kg) (lbs)	40.6 kg 89 lbs 8 oz				40.6 kg 89 lbs 8 oz	40.6 kg 89 lbs 8 oz

38 | Additional Information

 ¹ Vp-p, 75 ohms unbalanced, sync negative
 2 Y: 1 Vp-p, 75 ohms unbalanced, sync negative
 C: 0.286 Vp-p (Burst signal), 75 ohms

^{3) 500} mVrms (100% modulation), Impedance: 47 kilohms

⁴ More than 408 mVrms at the maximum volume setting (variable)
More than 408 mVrms (fix)
Impedance: 5 kilohms

		NO.	/		/
	20	Author 3	32525	/	•
4		42	\angle		

Television system	American TV standard
Channel coverage	VHF: 2-13 / UHF: 14-69 / CATV: 1-125
Antenna	75-ohm external antenna terminal for VHF/UHF
Picture tube	Hi Black Trinitron® tube
Screen size (in.)	32-inch picture measured diagonally

Power requirements 120 V, 60 Hz Number of inputs/ outputs Video1) 2 S video2) 1 Audio3) 2 Audio out4) 1 Monitor out1) TV out1) S-Link Speaker output (W) 5W × 2 Power consumption (W) 185W When in use (Max.) In standby 9W Dimensions (W/H/D) 781 × 712.1 (mm) × 582.5 mm 303/4×281/8 \times 23 in. 64.3 kg Mass (kg) (lbs) 141 lbs 12 oz

Supplied accessories

/29RS25/ Remote commander RM-Y136 (1) (KV-27S25/ 29RS25C/32S25 only)

Size AA (R6) battery (2)

Optional accessories

Connecting cables VMC-810S/820S, VMC-720M, YC-15V/30V, **RK-74A** /29RS25/

TV Stand SU-27A (KV-27S25/ 29RS25C/

only)

TV Stand SU-32A (KV-32S25

only)

U/V mixer EAC-66

Design and specifications are subject to change without notice.

Feature packages

Model number	Feath	One-tuner PIP	Two-tuner Pip	S-Link/LightSens	Tilt correction	
KV-27S25		•	,			1
KV-29RS25		•				
KV-29RS25C		•				
	-					1
KV-32S25		•				

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^{1) 1} Vp-p, 75 ohms unbalanced, sync negative

²⁾ Y: 1 Vp-p, 75 ohms unbalanced, sync negative C: 0.286 Vp-p (Burst signal), 75 ohms

^{3) 500} mVrms (100% modulation), Impedance: 47 kilohms

⁴⁾ More than 408 mVrms at the maximum volume setting (variable) More than 408 mVrms (fix) Impedance: 5 kilohms

SAFETY CHECK-OUT

(US model only)

After correcting the original service problem, perfom the following safety checks before releasing the set to the customer:

- Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
- 2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
- 3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
- Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
- Look for parts which, through functioning, show obvious signs of deterioration. Point them out to the customer and recom mend their replacement.
- 6. Check the line cords for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
- 7. Check the condition of the monopole antenna (if any). Make sure the end is not broken off, and has the plastic cap on it. Point out the danger of impalement on a broken antenna to the customer, and recommend the antenna's replacement.
- Check the B+ and HV to see they are at the values specified.
 Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
- Check the antenna temminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

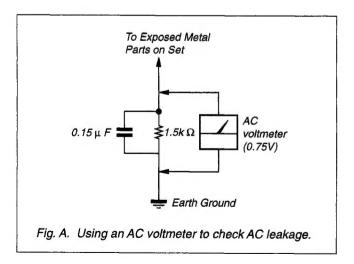
LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5mA (500 microampers). Leakage current can be measured by any one of three methods.

- A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
- 2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
- 3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

HOW TO FIND A GOOD EARTH GROUND

A cold-water pipe is guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth-ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms. If a cold-water pipe is not accessible, connect a 60-100 watts trouble light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side of the line, the lamp should light at normal brilliance if the screw is at ground potential. (See Fig. B)



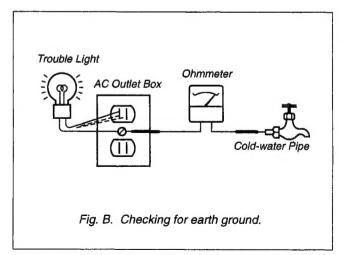


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	2-3-1. Service Position (A Board)				
		····			

(CAUTION)

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

WARNING!!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.

THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK! ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL FOR SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

(ATTENTION)

APRES AVOIR DECONNECTE LE CAP DE L'ANODE, COURT-CIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

ATTENTION!!

AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHÁSSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÉ LORS DE TOUT DÉPANNAGE. LE CHÁSSIS DE CE RÉCEPTEUR EST DIRECTEMENT RA CCORDÉ À L'ALIMENTATION SECTEUR.

ATTENTION AUX COMPOSANTS RELATIFS À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÈS PAR UNE TRAME ET PAR UNE MARQUE! SUR LES SCHÉMAS DE PRINCIPE, LES VUES EXPLOSÉES ET LES LISTES DE PIECES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÉCE EST INDIQUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY. LES RÉGLAGES DE CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT SONT IDENTIFIES DANS LE PRÉSENT MANUEL. SUIVRE CES PROCÉDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, OU LORSQU'UN MAUVAIS FONCTIONNEMENT EST SUSPECTÉ.

SECTION 1 GENERAL

Getting Started

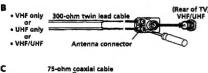


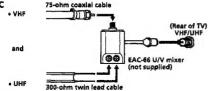
Although you can use either an indoor or outdoor antenna with your TV, we recommend that you connect an outdoor antenna or a cable TV system to get better picture quality.

How to connect different types of cables

The illustrations below show examples of connecting cables to the TV directly.







Note

- Most VHF/UHF combination antennas have a signal splitter.
 Remove the splitter before attaching the appropriate connector.
- If you use the U/V mixer, snow and noise may appear in the picture when viewing cable TV channels over 37.

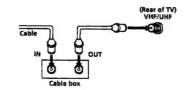
Connecting an antenna/cable TV system without a VCR

If your cable company requires you to connect a cable box, make the connection as follows:

Cable or antenna



Cable box



Connecting an antenna/cable TV system with a VCR

To connect your VCR to the TV, first check the model number of your TV and select the corresponding connection. For details on connection, see the instruction manual of your VCR.

Before making the connection, disconnect the AC power cords of the equipment to be connected.

Without a cable box

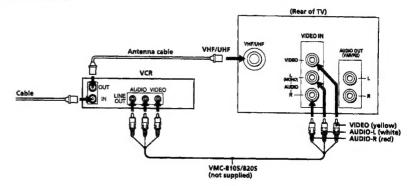
After making these connections, you will be able to do the following:

View the playback of video tapes

The operation instruction mentioned here are partial abstracts from

the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remein as in the manual. (Part no: 3-810-852-21)

Record one TV program while viewing another program



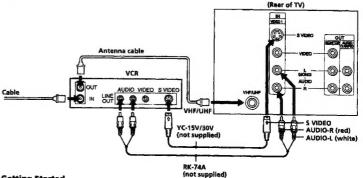
Note

 To connect a monaural VCR, connect the audio output of the VCR to AUDIO-L (mono) of VIDEO IN on the TV.

To an 5 video equipped VCR without a cable box

■ KV-27V20/29V20M only

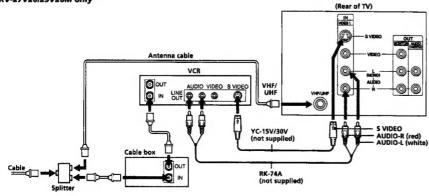
If your VCR has an S video output jack, make the following connections.



To connect a monaural VCR, connect the audio output of the VCR to AUDIO-L (mono) of VIDEO IN on the TV.

To an 5 video equipped VCR with a cable box

■ KV-27V20/29V20M only



· Video signals are composed of Y (luminance) and C (chroma) signals. The S connection sends the two signals separately preventing degradation, and gives better picture quality compared to conventional connections.

Connecting a DBS receiver

For connection details, see the instruction manual of the DBS (Digital Broadcasting Satellites) receiver.

To a TV

(Rear of TV)

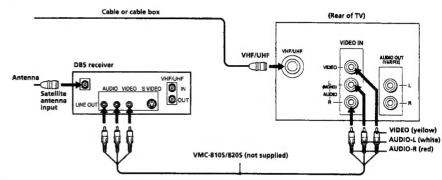
VIDEO IN

AUDIO-R (red)

AUDIO-L (white) VIDEO (yellow)

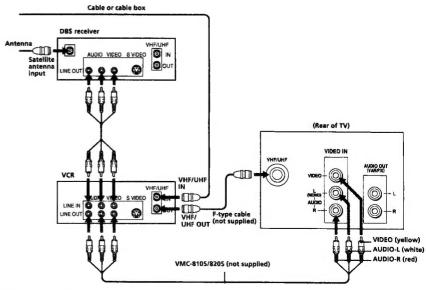
VHF/UHF

VMC-8105/8205



. You can use the S VIDEO jack or the composite video jack for the video connection.

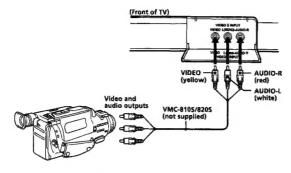
To a TV and VCR



Connecting a camcorder

■ KV-27V20/29V20M only

This connection is convenient for viewing a camcorder picture.

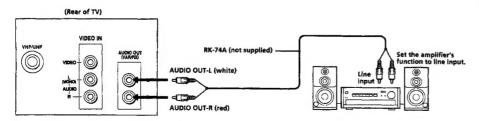


Note

 To connect a monaural camcorder, connect the audio output of the camcorder to AUDIO-L (mono) of VIDEO 2 INPUT on the TV.

Connecting an audio system

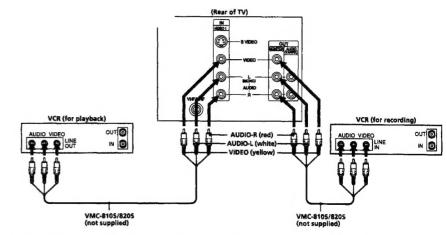
When connecting audio equipment, see pages 21-22 for more information.



Connecting two VCRs for tape editing using MONITOR OUT

■ KV-27V20/29V20M only

MONITOR OUT allows you to record a program that is on the screen.

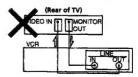


The above type of connection should only be used when you connect from the line input of one VCR, and from the line output of a second VCR.

Note:

- Do not change the input signal while editing through MONITOR OUT, or the output signal will also change.
- You can use the S video jack to connect a VCR for playback and the composite video jack to connect a VCR for recording.

 When connecting a single VCR to the TV, do not connect the MONITOR OUT jacks at the rear of the TV to the VCR's line input, while at the same time connecting from the TV's VIDEO IN jacks to the VCR's line output, as shown below.



Step 2: Setting up the remote commander

Inserting batteries

Insert two size AA (R6) batteries (supplied) by matching the + and - on the battery to the diagram inside the battery compartment.





Notes

- Under normal conditions, batteries will last up to six months. If the remote commander does not operate properly or the indicators of the buttons on the remote commander do not light up, the batteries may be worn out. When replacing batteries, replace both of them with new ones.
- · Do not mix old batteries with new ones or mix different types
- · If the electrolyte inside the battery should leak, wipe the contaminated area of the battery compartment with a cloth and replace the old batteries with new ones. To prevent the electrolyte from leaking, remove the batteries when you don't plan to use the remote commander for a long period of time.
- . Do not handle the remote commander roughly. Do not drop it, step on it or let it get wet.
- . Do not place the remote commander in direct sunlight, near a heater, or where the humidity is high.

Getting to know buttons on the remote commander

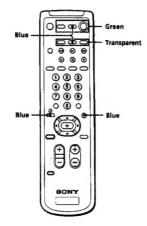
Names of buttons on the remote commander are indicated in different colors to represent the available functions.

Button color

Transparent	TV/VCR/DBS/Cable box function
(light up)	buttons. Press the appropriate
	function button first to change the
	remote commander's function.
Green	Buttons relevant to power operations

Label color

White	TV/VCR/DBS/Cable box operation
	buttons.
Blue	DBS operation buttons.



Step 3: Setting up the TV automatically

(AUTO SET UP)

You can set up your TV easily by using the AUTO SET UP feature. It presets all the receivable channels. To set up the TV manually, see "Setting cable TV on or off" (page 14) and "Presetting channels" (page 14).

O STAND BY/STEREO

Before you start using AUTO SET UP, be sure to connect the antenna or cable to the TV (see

1 Press POWER to turn on the TV.

The AUTO SET UP screen appears.





- · The AUTO SET UP screen appears whenever you press the POWER button if you do not execute AUTO PROGRAM.
- 2 (Except Canadian models)

Press CHANNEL + to select English screens or CHANNEL - to select Spanish screens.



3 Press VOLUME --.





"AUTO PROGRAM" appears on the screen and the TV starts scanning and presetting channels automatically. When all the receivable channels are stored, "AUTO PROGRAM" disappears and the lowest numbered channel is displayed. If the TV receives cable TV channels, CABLE is set to ON automatically.

To perform AUTO SET UP again

- 1 Press SET UP on the TV.
- 2 (Except Canadian models) Press CHANNEL + or CHANNEL - to select the language.
- 3 Press VOLUME -.
- The picture and sound settings will be set to the factory preset conditions.
- 4 Press CHANNEL +.
 - "AUTO PROGRAM" appears on the screen and the TV starts scanning and presetting channels.
- 5 Press CHANNEL to exit the AUTO SET UP menu.

To exit AUTO PROGRAM

Press any button.

Note

· If the TV is set to a video input, you cannot execute AUTO SET UP. Press TV (black button) so that a channel number appears.

To browse the main functions (DEMO)

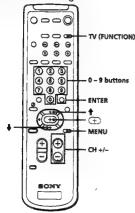
Press TV/VIDEO on the TV in step 3. The functions and menus are displayed one by one.

To exit DEMO

Press any button.

Erasing or adding channels

After AUTO SET UP, you can erase unnecessary channels or add the channels you want. Preset channels during the day rather than late at night, when some channels may not be broadcasting.



1 Press TV (FUNCTION).



2 Press MENU.

The main menu appears.





3 Press + or + to select 🖶, and press 🖜.

The SET UP menu appears.







4 Press + or + to select CHANNEL ERASE/ADD, and press 🕣.

The CHANNEL ERASE/ADD menu appears.



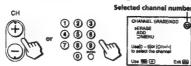




5 Erase and/or add channels:

To erase an unwanted channel

- (1) Make sure the cursor (▶) is beside ERASE.
- (2) Press CH +/- or the 0-9 buttons to select the channel you want to erase, and press ENTER.



(3) Press (7).

The "-" indication appears beside the channel number, showing that the channel is erased from the preset memory.



To add a channel that you want

- (1) Press ★ or ★ to move the cursor (▶) to ADD.
- (2) Press the 0 9 buttons to select the channel you want to add, and press ENTER.

Selected channel number





(3) Press (+).

The "+" indication appears beside the channel number, showing that the channel is added to the preset memory.



6 To erase and/or add other channels, repeat

7 Press MENU to return to the original screen.



 If you erase or add a VHF or UHF channel, the cable TV channel with the same number is also erased or added, and

Getting Started | 13

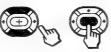
Setting cable TV on or off

If you have connected the TV to a cable TV system, set CABLE to ON (the factory setting). If not, set CABLE to OFF. You do not have to do this procedure if you execute AUTO SET UP (page 12). Do this procedure only when you want to set it manually.

- 1 Press MENU.
- 2 Press + or + to select 🖶, and press 🕀 .

3 Set CABLE to ON or OFF:

- (1) Press ♦ or ♥ to select CABLE, and press ±.
- (2) Press ♦ or ♦ to select ON or OFF, and press ④



4 Press MENU to return to the original screen.

. If CABLE appears in gray, the TV is set to a video input and you cannot select CABLE. Press TV (black button) so that a channel number appears.

Presetting channels

You can preset TV channels easily by using the AUTO PROGRAM feature. You do not have to do this procedure if you execute AUTO SET UP (page 12). Do this procedure only when you want to set it manually.

- 1 Press MENU.
- 2 Press + or + to select , and press .
- 3 Press + or + to select AUTO PROGRAM, and





AUTO PROGRAM

"AUTO PROGRAM" appears on the screen and the TV starts scanning and presetting channels automatically. When all the receivable channels are stored, "AUTO PROGRAM" disappears and the lowest numbered channel is displayed.

4 Press MENU to return to the original screen.

To exit AUTO PROGRAM

Press any button.

- . If the AUTO PROGRAM menu appears in gray, the TV is set to a video input and you cannot select AUTO PROGRAM. Press TV (black button) so that a channel number appears.
- Getting Started

Changing the menu language

■ Except Canadian models

If you prefer Spanish to English, you can change the menu language. You do not have to do this procedure if you select the language during AUTO SET UP (page 12).

- 1 Press MENU.
- 2 Press + or + to select 🕾, and press 🕀.
- 3 Press + or + to select LANGUAGE, and press D.



4 Press + or + to select your favorite language, "ENGLISH" or "ESPAÑOL," and press 🕀 .



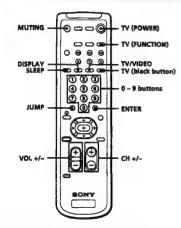




5 Press MENU to return to the original screen.

Note

· Certain parts of the Spanish menus remain in English.



1 Press TV (POWER) to turn on the TV.



If "VIDEO" appears on the screen, press TV (black button) so that a channel number appears.

2 Press TV (FUNCTION).

- FUNCTION -



Once you press TV (FUNCTION), the TV function is set unless another function button is pressed.

3 Select the channel you want: To select a channel directly

Press the 0 – 9 buttons, and press ENTER. To scan through channels

Press CH +/- until the channel you want appears.





The channel can also be selected without pressing ENTER.

4 Press VOL +/- to adjust the volume.





Switching quickly between two channels

You can use the JUMP button to switch or "jump" back and forth between two channels.

**Some programs are broadcast with Caption Vision.

**When you select Caption Vision with the DISPLAY

Press JUMP.



Pressing JUMP again switches back the channel.

Not

 You cannot jump to channels you scanned through using the CH +/- buttons.

Muting the sound

Press MUTING.

"MUTING" appears on the screen.



To restore the sound, press MUTING again, or press VOL +.

Displaying on-screen information

Press DISPLAY repeatedly until the desired display appears.

Each time you press DISPLAY, the display changes as follows:



- Channel number, the current time (only for available models), channel caption (if set), and MTS mode (if SAP is selected) are displayed. SAP indication disappears after three seconds.
- ** Some programs are broadcast with XDS (Extended Data Service) which shows a network name, program name, program type, program length, call letters, and time of the show. When you select XDS with the DISPLAY button, this information will be displayed on the screen if the broadcaster offers this service.
- *** Some programs are broadcast with Caption Vision.
 When you select Caption Vision with the DISPLAY button, Caption Vision will be displayed on the screen if the broadcaster offers this service. (See page 27 for selecting Caption Vision.)

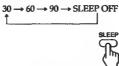
To cancel the display, press DISPLAY repeatedly until "DISPLAY OFF" appears. "DISPLAY OFF" goes off after three seconds.

Setting the Sleep Timer

The TV stays on for the length of time you specify and then shuts off automatically.

Press SLEEP repeatedly until the time (minutes) you want appears.

Each time you press SLEEP, the time changes as follows:



To cancel the Sleep Timer, press SLEEP repeatedly until "SLEEP OFF" appears, or turn the TV off.

Watching a video input picture

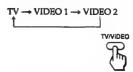
Press TV/VIDEO repeatedly until the desired video input appears.

Each time you press TV/VIDEO, the display changes as follows:

KV-27520/29P51/29R520/29R520C/29SD1/32S20/ 34RS20C only

TV → VIDEO 1

■ KV-27V20/29V20M only



To return to the TV picture, press TV (black button) so that a channel number appears.

When watching TV programs, you can adjust the picture to suit your taste.

You can adjust the picture of video input(s) as well. These settings are stored separately from those for the TV picture.



- 1 Press MENU.
- 2 Press + or + to select (III), and press (1).







3 Select the Item you want to adjust. For example:

(1) To adjust the brightness, press ♦ or ♥ to move the cursor (▶) to BRIGHTNESS.





(2) Press .





4 Adjust the selected item:

(1) Press ♦ or ♦ to adjust the item.





(2) Press .

The new setting appears in the VIDEO menu.





For details on each item, see "Description of adjustable items" below.

- 5 To adjust other Items, repeat steps 3 and 4.
- 6 Press MENU to return to the original screen.

Description of adjustable Items

ltem	Press + to	Press + to
PICTURE	Decrease picture contrast and give soft color.	Increase picture contrast and give vivid color.
HUE	Make picture tones become purplish.	Make picture tones become greenish.
COLOR	Decrease color intensity.	Increase color intensity
BRIGHTNESS	Darken the picture.	Brighten the picture.
SHARPNESS	Soften the picture.	Sharpen the picture.

To restore the factory settings

Press RESET while the VIDEO menu is displayed. All the settings are restored to the factory settings.

Selecting the video mode (VIDEO)

The video mode feature allows you to choose three different modes of picture settings. Choose the one that best suits the type of program that you want to watch.

- 1 Press MENU.
- 2 Press + or + to select @, and press .
- 3 Press + or + to select MODE, and press 🕀 .
- 4 Press + or + to select STANDARD, MOVIE, or SPORTS mode, and press ①.







Choose	То
STANDARD	Receive a standard picture.
MOVIE	Receive a finely detailed picture.
SPORTS	Receive a vivid, bright picture.

5 Press MENU to return to the original screen.

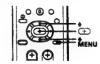
The settings for these modes can be adjusted in the VIDEO

Adjusting picture brightness automatically

(LIGHTSENSOR)

E KV-27V26/29V20M only

The LightSensor feature adjusts the brightness of the picture automatically according to the ambient



- 1 Press MENU.
- 2 Press + or + to select III, and press .
- 3 Press + or + to select LIGHTSENSOR, and press 🕀 .







Press + or + to select ON or OFF, and press Œ.





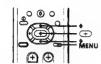


5 Press MENU to return to the original screen.

· The LightSensor function may malfunction if you stand or place objects in front of the TV.



You can adjust the TV sound to suit your taste. You can adjust the sound of the video input(s) as well. These settings are stored separately from those for the TV sound.



- 1 Press MENU.
- 2 Press + or + to select >, and press ③.







- 3 Select the Item you want to adjust. For example:
 - (1) To adjust bass, press ♠ or ♦ to move the cursor (>) to BASS.





(2) Press 🕧 .





Adjust the selected item:

(1) Press o or ▼ to adjust the item.





(2) Press (1).

The new setting appears in the AUDIO menu.





For details on each item, see "Description of adjustable items" below.

- 5 To adjust other items, repeat steps 3 and 4.
- 6 Press MENU to return to the original screen.

Description of adjustable items

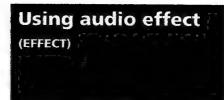
ltem	Press + to	Press + to
TREBLE	Decrease the treble response.	Increase the treble response.
BASS	Decrease the bass response.	Increase the bass response.
BALANCE	Emphasize the left speaker's volume.	Emphasize the right speaker's volume.

To restore the factory settings

Press RESET while the AUDIO menu is displayed.

Note

 When SPEAKER (page 21) is OFF and AUDIO OUT (page 22) is in the FIXED condition, the volume, TREBLE, BASS, and BALANCE cannot be adjusted.



Using the @ (audio effect) button

■ For KV-27520/29P51/29R520/29R520C/29SD1/32S20/ 34R520C only

Press ②.

Each time you press the @ button, the display changes as follows:

SURROUND --> SURROUND OFF



For KV-27V20i29V20M only

Press @.

Each time you press the ② button, the display changes

SRS → SIMULATED → EFFECT OFF



Choose	To
SURROUND	Simulate sound reproduction with the atmosphere of a movie theater or a concer hall. Surround sound is only effective for stereo programs.
SRS	When the program's audio signal is stereo or encoded, SRS expands the material and embraces you with dynamic three- dimensional sound.
SIMULATED	Receive monaural sound with a surround- like effect.

To use the D button function, press TV (FUNCTION).

Using the menu to set audio effect



- 1 Press MENU.
- 2 Press + or + to select 1, and press .
- 3 Press + or + to select EFFECT, and press 🕁.







4 Press + or + to select the audio effect mode, and press 🕣 .







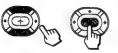
5 Press MENU to return to the original screen.

Selecting stereo or bilingual programs (MTS)

The Multichannel TV Sound (MTS) feature allows you to enjoy stereo sound or Second Audio Programs (SAP) of your choice. The initial setting is stereo sound (MAIN).



- 1 Press MENU.
- 2 Press + or + to select J, and press .
- 3 Press + or + to select MTS, and press ...





4 Press + or + to select MAIN, SAP, or MONO, and press 🕀.





Choose	To
MAIN	Listen to stereo sound. The STEREO indicator on the TV lights up when a stereo broadcast is received.
SAP	Listen to bilingual programs. There is no sound when the SAP signal is not broadcasting.
MONO	Listen to monaural sound. Reduce noise during stereo broadcasts.

5 Press MENU to return to the original screen.

Note

Stereo and SAP sounds are subject to program sources.

Setting the speaker switch (SPEAKER)

You may switch off the TV speakers when, for example, you want to listen to the sound through a stereo system.



- 1 Press MENU.
- 2 Press + or + to select ≥, and press ⊕.
- 3 Press + or + to select SPEAKER, and press





4 Press + or + to select ON or OFF, and press





5 Press MENU to return to the original screen.

Setting audio out (AUDIO OUT)

You can change AUDIO OUT to VARIABLE or FIXED when SPEAKER is set to OFF. AUDIO OUT is variable when SPEAKER is set to ON.



- 1 Press MENU.
- 2 Press 4 or + to select 1, and press 1.
- 3 Press + or + to select AUDIO OUT, and press







Press + or + to select VARIABLE or FIXED. and press 🕀.







VARIABLE: Sound output varied according to the TV settings. You can adjust the volume, bass, treble, and balance.

FIXED: Sound output is always fixed to a certain level. The volume, bass, treble, and balance are also fixed to the factory settings.

5 Press MENU to return to the original screen.

. If AUDIO OUT appears in gray, set SPEAKER to OFF.

Setting daylight saving time (DAYLIGHT SAVING)

KV-27V20/29V20M only



- 1 Press MENU.
- 2 Press + or + to select ②, and press ④.
- 3 Press + or + to select DAYLIGHT SAVING, and press 🕘.







Press + or + to select YES or NO, and press







Choose	To
YES	Set for daylight saving start. The current time automatically moves one hour ahead.
NO	Set for daylight saving end.

5 Press MENU to return to the original screen.

Setting the clock (CURRENT TIME SET)

■ KV-27V20/29V20M only

Setting the clock enables you to turn the TV on and off with the timer. Make sure to set daylight saving time first.



- 1 Press MENU.
- 2 Press + or + to select ①, and press ①.
- 3 Press + or + to select CURRENT TIME SET, and press .





Make sure the cursor (▶) is to the left of "--:-- AM," and press (+).





5 Set the current time.

(1) Press ♦ or ♦ to set the day, and press ⊕.







(2) Set the hour and minutes in the same way as in step (1). When you press 🛨 after setting the minutes, the clock starts.







6 Press MENU to return to the original screen.

Setting the timer to turn the TV on and off (ON/OFF TIMER)

KV-27V20/29V20M only

You can set the TV to turn on and off at the times you specify. Make sure the clock is set correctly. If it is not, set the clock first.



- 1 Press MENU.
- 2 Press + or + to select ②, and press ④.
- 3 Press + or + to select ON/OFF TIMER, and press (+).







Press 🕒 and enter the ON/OFF TIMER setting.

(1) Press ♦ or ♦ to set the day(s), and press ⊕.

Each time you press ♦ or ♦, the days cycle as

EVERY SUN-SAT→EVERY MON-FRI→ SUNDAY---...-SATURDAY-EVERY SUNDAY→...→EVERY SATURDAY









(continued)

Operations |

(2) Press ♠ or ♦ to set the time (hour then minutes) that you want to turn on the TV, and press (+).







(3) Press ♦ or ♥ to set the time duration, and press

Each time you press 4, the time duration increases by one hour up to a maximum of six







(4) Press ♦ or ♥ to select the channel, and press ⊕







The TIMER indicator on the TV lights up.

5 Press MENU to return to the original screen.

One minute before the TV turns off, the message "TV will be off soon." is displayed on the screen.

To cancel the timer

In step 3 or 4, press RESET.

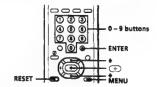
Note

. If you unplug the TV or a power interruption occurs, the ON/ OFF TIMER setting will be erased. Reset the current time, then set the timer.

Customizing the channel names

(CHANNEL CAPTION)

You can add a caption for up to 12 channels. This feature allows you to easily identify which channel you are watching. You can make your own caption.



- 1 Press MENU.
- 2 Press + or + to select fi, and press .







3 Press + or + to select CHANNEL CAPTION, and press (+).







4 Press 🕀 and press + or + to select the channel that you want to caption, and press 🕀.







DĀĒNI

(1) Press ♦ or ♦ to select the first letter.

Each time you press ♦ or ♦, the letter changes as follows:



(2) Press (+).





- (3) Repeat steps (1) and (2) to select the remaining letters, and press 🕒.
- 6 To caption other channels, repeat steps 4 and 5.
- 7 Press MENU to return to the original screen.

After you customize the channel, the channel caption appears green.

To erase a caption

In step 5, press RESET.

Notes

- If the CHANNEL CAPTION menu appears in gray, the TV is set to a video input, and you cannot select CHANNEL CAPTION. Press TV (black button) so that a channel number appears.
- If more than 90 seconds elapse after you press a button, the menu disappears automatically.

Blocking out a channel (CHANNEL BLOCK)

Setting your favorite channels

(FAVORITE CHANNEL)

The channel block feature allows you to prevent children from watching unsuitable programs. You can block out two channels.



- 1 Press MENU.
- 2 Press + or + to select 🖶, and press 🕀.
- 3 Press + or + to select CHANNEL BLOCK, and press ⊕.







4 Press + or + to select 1 or 2, and press .





5 Press + or + to select the channel which you want to block out, and press





6 Press MENU to return to the original screen.

When you select the blocked channel "BLOCKED" appears on the screen.



To cancel a CHANNEL BLOCK setting In step 4 or 5, press RESET.

Note

 Once you use CHANNEL BLOCK, Caption Vision and XDS of the blocked channel and the selected channel output from TV OUT/MONITOR OUT are also blocked out.
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The favorite channel feature allows your TV to memorize your favorite channels easily. If you set to AUTO, the last five channels you selected with the 0-9 buttons are automatically set as your favorite channels. If you want to input your own selection of channels, set to MANUAL.

Setting your favorite channels



- 1 Press MENU.
- 2 Press + or + to select @, and press .
- 3 Press + or + to select FAVORITE CHANNEL, and press (+).







4 Press
 and press
 or
 to select AUTO or MANUAL, and press
.







If you select AUTO, skip steps 5 and 6.
The last five channels you selected with the 0 – 9 buttons are automatically set as your favorite channels.

If you select MANUAL, the favorite channel numbers become white, indicating that favorite channels can be entered.

5 Press + or + to select a favorite channel number, and press .







Press + or + to select the channel that you want to set as your favorite channel, and press .







7 Press MENU to return to the original screen.

Notes

- If the FAVORITE CHANNEL menu appears in gray, the TV is set to a video input and you cannot select FAVORITE CHANNEL.
- If more than 90 seconds elapse after you press another button, the menu disappears automatically.

Selecting your favorite channel



Press ①.
The FAVORITE CHANNEL menu appears.





2 Press ♦ or ♦ to select the favorite channel you want to watch, and press ...
The selected channel appears on the screen.





To cancel the FAVORITE CHANNEL menu Press ♦ or ♦ to select "Exit," and press ♠.

Some programs are broadcast with Caption Vision. To display Caption Vision, select either CC1, CC2, CC3, CC4, TEXT1, TEXT2, TEXT3, or TEXT4 from the menu. CC1, CC2, CC3, or CC4 shows you a caption, that is a printed version of the dialogue or sound effects of a program. (The mode should be set to CC1 for most programs.) TEXT1, TEXT2, TEXT3, or TEXT4 shows you text, that is information presented using either half or the whole screen. It is not usually related to the program.



1 Press MENU.

 ∞

2 Press + or + to select 🖾, and press 🕘.







3 Press + or + to select the caption type, and press .







4 Press MENU to return to the original screen.

To display Caption Vision

Press DISPLAY. (See page 16 for details.)

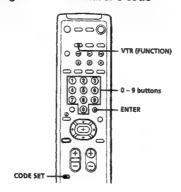
Note:

- Poor reception of TV programs can cause errors in Caption Vision and XDS.
- Captions may appear with a white box or other errors instead of a certain word.
- XDS, Caption Vision, and the status display cannot be used at the same time.
- · For details on XDS, see page 16.

Operating video equipment

You can use the supplied remote commander to operate Sony or non-Sony video equipment that has an infrared remote sensor. For this operation, set the manufacturer's code number.

Setting the manufacturer's code



Press the CODE SET, VTR (FUNCTION), and 0 – 9 buttons to enter the manufacturer's code number (see the chart in the following page), then press ENTER. For example, to operate a Sony 8 mm VCR, press CODE SET, VTR (FUNCTION), 3, 0, 2, and ENTER.

(continued)

VCR manufacturer code numbers

Manufacturer	Code number
Sony	301, 302, 303
Aiwa	338
Audio Dynamic	314, 337
Bell & Howell (M. Wards)	330, 343
Brocsonic	319
Canon	309, 308
Citizen	332
Craig	315, 302, 332
Curtis Mathis	304, 338, 309
Daewoo	341, 312, 309
DBX	314, 336, 337
Dimensia	304
Emerson	319, 320, 316, 317, 318
Fisher	330, 334, 335, 333
Funai	338
General Electric	329, 304, 309
Goldstar	332
Hitachi	306, 304, 305
Instant Replay	309, 308
JC Penny	309, 305, 304, 330, 314,
JVC	336, 337
Kenwood	314, 336, 337
LXI (Sears)	314, 336, 332, 337
LAI (Sears)	332, 305, 333, 334, 330,
Magnayay	335
Magnavox Marantz	308, 309
Marta	314, 336, 337 332
Memorex	
Minolta	309, 335
Mitsubishi/MGA	305, 304 323, 324, 325, 326
Multitech	325, 338, 321
NEC	314, 336, 337
Olympic	309, 308
Panasonic	308, 309, 306, 307
Pentax	305, 304
Philco	308, 309
Philips	308, 309
Pioneer	308
Quasar	308, 309
RCA/PROSCAN	304, 305, 308, 309, 311,
	312, 313
Realistic	309, 330, 328, 335, 324,
	338
Sansui	314
Singer	315
Samsung	322, 313, 321
Sanyo	330, 335
Scott	312, 313, 321, 335, 323,
	324, 325, 326
Sharp	327, 328
Shintom	315
Signature 2000 (M. Wards)	338, 327
Sylvania	308, 309, 338
Symphonic	338
Tashiro	332
Tatung	314, 336, 337
Teac	314, 336, 338, 337
Technics	309, 308
Toshiba	312, 311
Wards	327, 328, 335, 331, 332
Yamaha	330, 314, 336, 337
Zenith	331

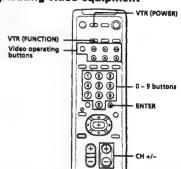
Notes

- If more than one code number is listed, try entering them one by one, until you come to the correct code for your equipment.
- In some rare cases, you may not be able to operate your non-Sony video equipment with the supplied remote commander. This is because your equipment may use a code that is not included with this remote commander. In this case, please use the equipment's own remote control unit.
- The code numbers for Sony equipment are assigned at the factory as follows:

8 mm VCR 302
Beta, ED Beta VCRs 303
Sac 303
Beta, ED Beta VCRs 303

 Whenever you remove the batteries — to replace them, for example — if too much time is taken, the code numbers may revert to the factory settings and must be reset.

Operating video equipment



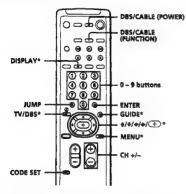
Use the video operating buttons on the remote commander to operate the video equipment.

Press VTR (FUNCTION) before operating the video equipment.

Operating a VCR	Buttons on the remote commander			
To turn on or off	Press VTR (POWER).			
To select a channel directly	Press the 0 - 9 buttons.			
To change channels	Press CH +/			
To record	Press while pressing . First release, then release.			
To play	Press .			
To stop	Press .			
To fast forward	Press >>.			
To rewind the tape	Press 📢.			
To pause	Press II. To resume normal playback, press again			
To search the picture forward or backward	Press → or ◀ during playback. To resume normal playback, release the button.			
To change input mode	Press TV/VTR.			

Note

 If the video equipment does not have a certain function, the corresponding button on this remote commander will not operate.



- * The TV/DBS, GUIDE, DISPLAY, ♠/♠/♠/♠/⊕, and MENU buttons can be used only with a DBS receiver.
- 1 Turn off the equipment you want to set up, and press DBS/CABLE (FUNCTION).



Press the CODE SET, DBS/CABLE (FUNCTION), and 0 - 9 buttons to enter the manufacturer's code number (see the chart), then press ENTER. For example, to program your remote commander to operate a Sony DBS receiver, press CODE SET, DBS/CABLE (FUNCTION), 8, 0, 1, and ENTER



3 Press DBS/CABLE (POWER) to turn on the cable box or DBS receiver.

DBS/CABLE POW

4 Use the cable box/DBS control buttons to check if the code number works.

For example, to operate a cable box or DBS receiver, you can use the DBS/CABLE (POWER), JUMP, CH +/-, 0 - 9 and ENTER buttons.

Note

 If the cable box or DBS receiver does not have a certain function, the corresponding button on this remote commander will not operate.

To operate the TV

Press TV (FUNCTION). Then use the TV control buttons to control the TV.

For more details on operating the cable box or DBS receiver

Refer to the operating instructions that come with the equipment.

If the remote commander doesn't work

 First, try repeating the setup procedures using the other codes listed for your equipment.

Manufacturer code numbers (cable box)

Manufacturer	Code number			
Hamlin/Regal	222, 223, 224, 225, 226			
Jerrold/G. I.	201, 202, 203, 204, 205, 206, 207, 208, 218			
Oak	227, 228, 229			
Panasonic	219, 220, 221			
Pioneer	214, 215			
Scientific Atlanta	210, 211			
Tocom	216, 217			
Zenith	212, 213			

Manufacturer code numbers (DBS receiver)

Manufacturer	Code number
Sony	801 (preset code for the supplied remote commander)

Notes

- If more than one code number is listed, try entering them one by one until you come to the correct code for your equipment.
- If you enter a new code number, the code number you
 previously entered at that setting is erased.
- In some rare cases, your equipment may use a code that is not provided with this remote commander and you may not be able to operate your equipment with the supplied remote commander. In this case, use the equipment's own remote control unit.
- Whenever you remove the batteries to replace them, for example — if too much time is taken, the code numbers may revert to the factory setting and must be reset.

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Additional Information



If the problem persists after trying the methods below, contact your nearest Sony dealer.

No picture (screen not lit), no sound

- Make sure the power cord is connected securely.
- Operate with the buttons on the TV.
- Insert the batteries in the remote commander with the correct polarity.
- Replace the batteries with new ones if they are weak.
- → Check to see if the TV/VIDEO setting is correct:
 when watching TV, set to TV, and when
 watching video tapes set to VIDEO on 2
- watching video tapes, set to VIDEO1 or 2.

 Try another channel. It could be station trouble.
- Peform AUTO SET UP again using the SET UP button to return to the factory preset condition. (page 12)

Poor or no picture (screen lit), good sound

- → Adjust PICTURE in the VIDEO menu. (page 17)
- Adjust BRIGHTNESS in the VIDEO menu. (page 17)
- Check antenna/cable connections.
- Peform AUTO SET UP again using the SET UP button to return to the factory preset condition. (page 12)
- Remove objects from the front of TV.
- → Check the LIGHTSENSOR setting in the VIDEO menu. (page 18)

Good picture, no sound

- Press MUTING so that "MUTING" disappears from the screen. (page 15)
- Check the MTS setting in the AUDIO menu. (page 21)
- → Make sure SPEAKER is set to ON in the AUDIO menu. (page 21)
- Peform AUTO SET UP again using the SET UP button to return to the factory preset condition. (page 12)

No color

- → Adjust the COLOR in the VIDEO menu. (page 17)
- → Black and white programs cannot be seen in
- Peform AUTO SET UP again using the SET UP button to return to the factory preset condition. (page 12)

Only snow and noise appear on the screen

- Check the CABLE setting in the SET UP menu. (page 14)
- Check the antenna/cable connections.
- Make sure the channel is broadcasting programs.
- → Press TV (black button) to change the input mode. (page 16)

Dotted lines or stripes

- Adjust the antenna.
- Move the TV away from noise sources such as cars, neon signs, and hair-dryers.

Double images or ghosts

 Use a highly directional outdoor antenna or a cable (when the problem is caused by reflections from nearby mountains or tall buildings).

Cannot operate menu

→ If the item you want to choose appears in gray, you cannot select it. Press TV/VIDEO correctly.

Cannot receive upper channels (UHF) when using an antenna

- Make sure CABLE is OFF in the SET UP menu. (page 14)
- Use AUTO PROGRAM to add receivable channels that are not presently in TV memory. (pages 13, 14)

Cannot receive any channels when using cable TV

- → Make sure CABLE is ON in the SET UP menu. (page 14)
- Use AUTO PROGRAM to add receivable channels that are not presently in TV memory. (pages 13, 14)

Remote commander does not operate

- Batteries could be weak. Replace the batteries.
- → Make sure the TV's power cord is connected securely to the wall outlet.
- → Press TV (FUNCTION) when operating your
- Are fluorescent lights too close to the TV? Move them at least 3-4 feet away from the TV.

Cannot gain enough volume when using a cable box

Increase the volume at the cable box. Then press TV (FUNCTION) and adjust the TV's volume.

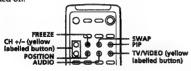
The TV needs to be cleaned

Clean the TV with a soft dry cloth. Never use strong solvents such as thinner or benzine, which might damage the finish of the cabinet.

Watching two programs at a time —PIP

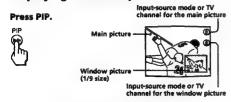
The Picture-in-Picture (PIP) feature allows you to watch both the main picture and a window picture simultaneously.

For KV-27S25/27V25/29RS25/29RS25C/29V65M/ 32S25/32TW25/32V25, your TV must be connected to a VCR to enjoy this feature. See "Connecting an antenna/cable TV system with a VCR" (page 6) for connections. In order to operate PIP, your VCR must be turned on.



Use the yellow labelled buttons for PIP operations.

Displaying a window picture



Press PIP again to display a smaller window picture.



To remove the window picture, press PIP again.

Note

 The window picture may be affected by the condition of the main picture.

Changing the window picture input mode

Press TV/VIDEO (yellow labelled button) to select the input mode.

Each time you press TV/VIDEO (yellow labelled button), "TV," "VIDEO 1," "VIDEO 2," and "VIDEO 3 (KV-27V25/27V35/29V35C/29V65M/29V75M/32V25/32V35/34V35C/35V35/35V45/35V75 only)" appear in sequence.





A window picture will appear in the same input mode as the last time you used PIP.

Note

 If you use one of the connections from page 6, your PIP input source is a VCR. If you use one of the connections from page 7, your PIP input source is a VCR or cable box.

Listening to the sound of the window picture

Press AUDIO.

The $\, \mathcal{J} \,$ display appears next to the PIP channel number for a few seconds, indicating that the window picture sound is being received.





The sound of the window

To restore the main picture sound, press AUDIO again. The & display moves to the main picture channel number.

Changing TV channels in the window picture

Press CH +/- (yellow labelled button).





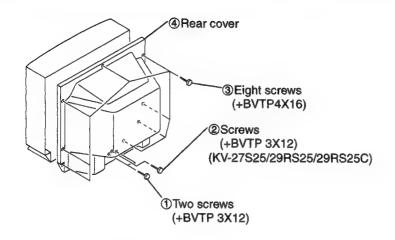
Operations | 21

*Only page part no3-810-687-21(Operating Instruction Manual).

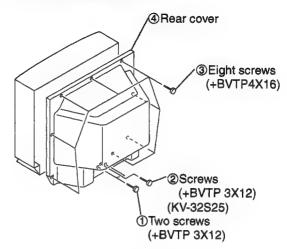
The operation instruction mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remein as in the manual.(Part no: 3-810-687-21)

SECTION 2 DISASSEMBLY

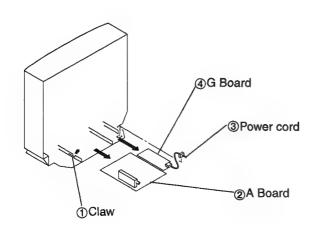
2-1-1. REAR COVER REMOVAL (KV-27S20/27S25/29PS1/29SD1/29RS20/29RS20C/29RS25/29RS25C)



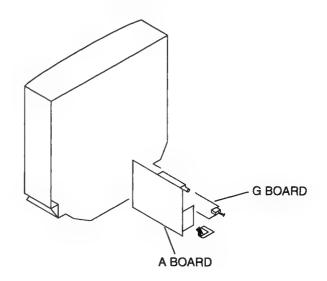
2-1-2. REAR COVER REMOVAL (KV-32S20/32S25/34RS20C)



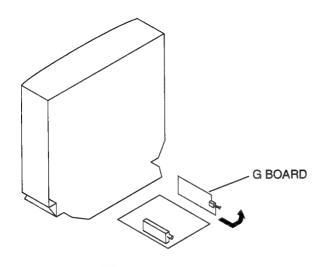
2-2. A AND G BOARDS REMOVAL



2-3-1. SERVICE POSITION (A BOARD)



2-3-2. SERVICE POSITION(G BOARD)



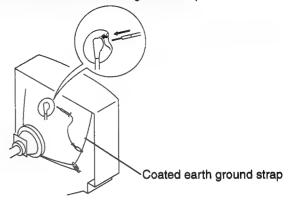
2-4-2. PICTURE TUBE REMOVAL (6) DGC holder (KV-27S20/27S25/29PS1/29SD1/29 (3) G board RS20/29RS20C/29RS25/29RS25C) (2) A board Claw 🗓 Degaussing coil 📙 (4) C board (5) Deflection yoke (9) Four screw-(Tapping ® Tension screw 7) spring(B) · (Î) Picture tube ① Anode cap Cushion

2-4-1. PICTURE TUBE REMOVAL

WARNING

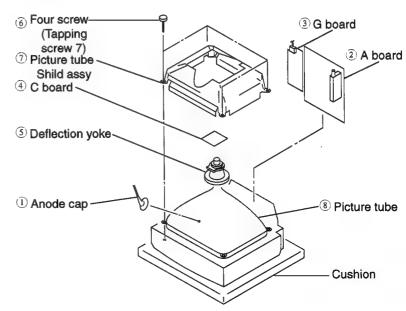
Before removing anode cap H.V remains in the CRT even after the the power is disconnected.

To avoid electrical shock, before attempting to remove the anode cap, discharge CRT: short between anode and CRT coated earth ground strap.



2-4-3. PICTURE TUBE REMOVAL

(KV-32S20/32S25/34RS20C)



REMOVAL OF ANODE-CAP

NOTE: Short circuit the anode of the picture tube and the anode cap to the metal chassis. CRT chield or carbon painted on the CRT, after removing the anode.

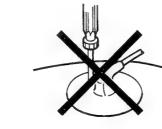
•REMOVING PROCEDURES

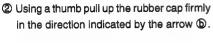


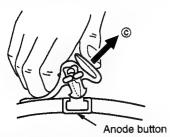
1 Turn up one side of the rubber cap in the direction indicated by the arrow @.

•HOW TO HANDLE AN ANODE-CAP

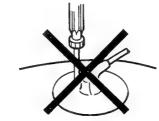
- 1 Don't hurt the surface of anode-caps with sharp shaped material!
- 2 Don't press the rubber hardly not to hurt inside of anode-caps! A material fitting called as shatter-hook terminal is built in the rubber.
- 3 Don't turn the foot of rubber over hardly! The shatter-hook terminal will stick out or hurt the rubber.

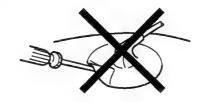






3 When one side of the rubber cap is separated from the anode button, the anodecap can be romoved by turning up the rubber cap and pulling up it in the direction of the arrow @.

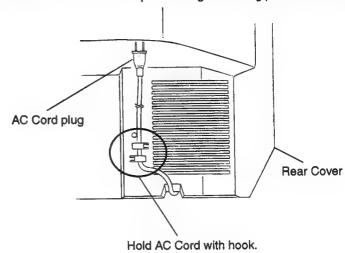




CAUTION

Be sure to attach AC Cord to Rear Cover with the hook in the following way for after service.

Then check if the AC cord is protected against being pressed under the set.



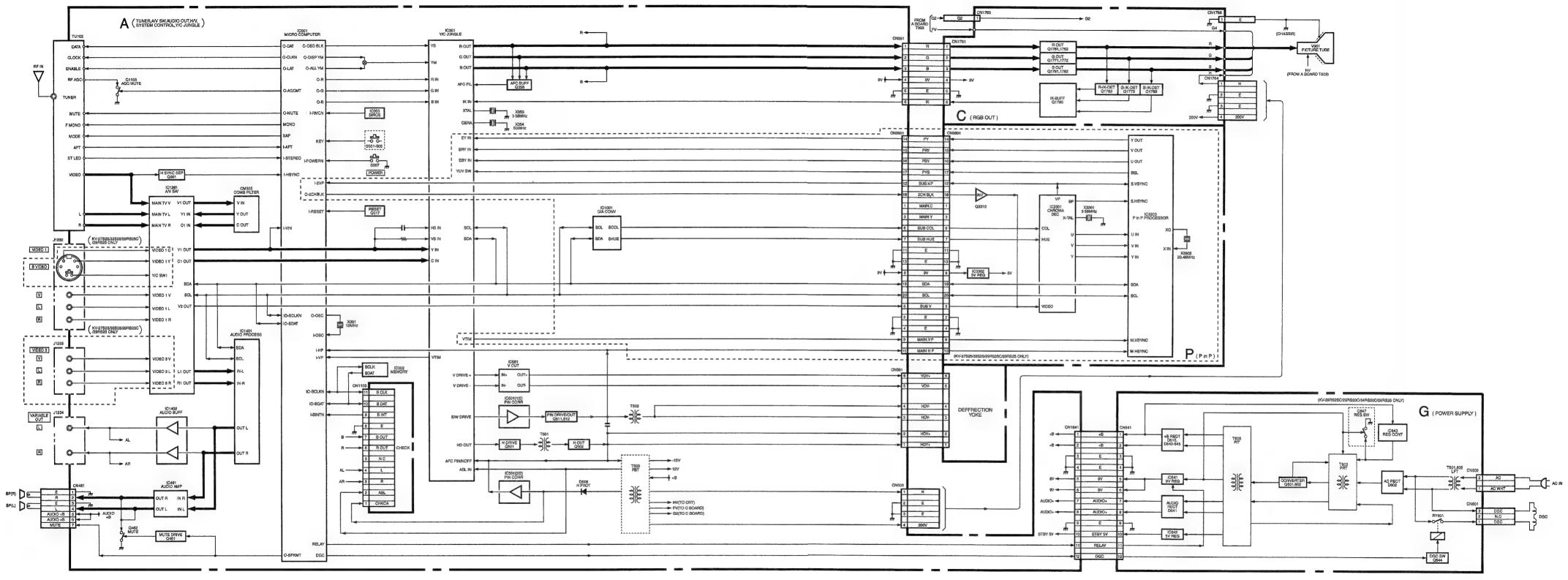
ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
M*RESISTOR CONFIRMATION METHOD (HOLD-DOWN CONFIRMATION) AND READJUSTMENTS		* marked parts IC643,IC351,IC501	*■ R530,531	A BOARD - CONDUCTOR SIDE - dejital multimeter
The following adjustments should always be performed when replacing the following components (*marked with ■ on the schematic diagram). (Hold-down operation confirmation)		D519,D520,D521, C531,C532, R387,R529,R530,R531 R532,R533,R550,R661 T503		TP85 T503
Step 1 1. Preparation before confirmation	W 3371.24 332 44			R531 R530 FBT
 Turn the POWER switch ON, and receive *signal and set the *PICTURE and BRIGHTNESS controls to adjustment. 	* White Picture	*TP85 (H. PROT)	*PICTURE BRIGHTNESS maximum	ammeter 3mA dc range
 Confirm that the voltage of the check terminal of *TP is more than *voltage when the set is operating normaly with *Power supply. 	*Digital multimeter			dc power supply [Check Condition]Step 1 *more than 21.0V DC27/29 inch only *more than 23.0V DC32 inch only *120 ± 2.0 VAC (Power Supply)
	* White Picture			
Step 2 2.Confirm that a voltage of between TP85 and ground.				[Check Condition]Step 2 *1760 ±100 μA27/29 inch only *2000 ±100 μA32 inch only
Step 3				*120 \pm 2.0 VAC (Power Supply)
4.Using an external DC power supply, apply voltage between TP 85 and groud.Increase gradually the voltage and confirm that the hold-down works (Raster disappears) at lower than the voltag obtained			TSO3 FBT anmeter 3. OnA dc renge ABL + A	[Check Condition]Step 3 *lower than 26.05 V DC27/29 inch only *lower than 26.95 V DC32 inch only *120 ± 2.0 VAC (Power Supply)
Step 2 mentioned above *voltage. Step 4 5.Confirm that a voltage of more than *voltage appears TP85 and ground.	* White Picture		*PICTURE BRIGHTNESS maximum	[Check Condition]Step 4Step 4 *more than 21.0V DC27/29 inch only *more than 23.0V DC32 inch only *120 ± 2.0 VAC (Power Supply)

ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
B+ VOLTAGE CONFIRMATION The following adjustments should always be performed when replacing the following *components.		*IC634, R661		
 Supply *Voltage AC to with *variable auto-transformer. Input an entirely *signal. Set the PICTURE control and the BRIGHTNESS control to adjustment. Confirm the voltage of *TP is less than *Voltage DC. If step 4) is not satisfied, replace the *components repeat above steps. 	*Variable auto- transformer *Monoscope	*G Board CN641 Pin 1 - ground	*PICTURE, BRIGHTNESS initial reset *IC634, R661	*Less than 136.5 VDC

MEMO	

SECTION 4 DIAGRAMS

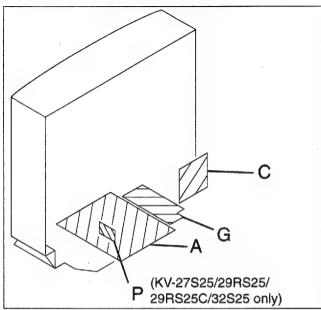
4-1. BLOCK DIAGRAM



— 29 —

SECTION 4 DIAGRAMS

4-2. CIRCUIT BOARDS LOCATION



4-3. PRINTED WRING BOARDS AND SCHEMATIC DIAGRAMS

- All capacitors are in μF unless otherwise noted. pF : $\mu \mu F$ 50WV or less are not indicated except for electrolytics and tantalums.
- · All electrolytics are in 50V unless otherwise specified.
- · All resistors are in ohms.
- $k\Omega=1000\Omega$, $M\Omega=1000k\Omega$
- Indication of resistance, which dose not have one for rating electrical power, is as follows.

Rating electrical power: 1/4 W

- 1/4 W in resistance, 1/10 W and 1/8 W in chip resistance.
- - : nonflammable resistor.
- fusible resistor.
- ★ : internal component.
- _____: panel designation and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise
- <u></u> : earth-ground.
- بلر : earth-chassis.
- (=) : earth-chassis.
- The components identified by
 in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation.

Should replacement be required, replace only with the value originally used.

- \bullet When replacing components identified by $\hfill \square$, make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by M and repeat the adjustment until the specified value is achieved. (Refer to R530 and R531 adjustment on Page 24-25.)
- . When replacing the part in below table, be sure to p-erform the related adjustment.5
- As to the voltage volue shown by the semiconductors on the Schematic

Diagram, see the another list.

- · Readings are taken with a color-bar signal input.
- Readings are taken with a $10M\Omega$ digital multimeter.
- · Voltages are do with respect to ground unless otherwise noted. · Voltage variations may be noted due to normal production tolerances.
- All voltages are in V.
- S : Measurement impossibillity.

• ____ : B+line. · B-line.

(Actual measured value may be different).

• : signal path. (RF)

• Circled numbers are waveform references.

Reference information

RESISTOR : RN METAL FILM

: RC SOLID : FPRD NONFLAMMABLE CARBON

: FUSE NONFLAMMABLE FUSIBLE

NONFLAMMABLE WIREWOUND

NONFLAMMABLE METAL OXIDE

NONFLAMMABLE CEMENT

ADJUSTMENT RESISTOR : LF-8L MICRO INDUCTOR

CAPACITOR : TA TANTALUM

STYROL : PS

POLYPROPYLENE

MYLAR

: MPS METALIZED POLYESTER

: MPP METALIZED POLYPROPYLENE : ALB BIPOLAR

: ALT HIGH TEMPERATURE

: ALR HIGH RIPPLE

Note: The symbol - display is on the component side.

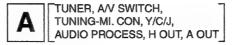
The components identified by shading and mark A are critical for safety. Replace only with part number

The symbol indicate fast operating fuse. Replace only with fuse of same rating as maked.

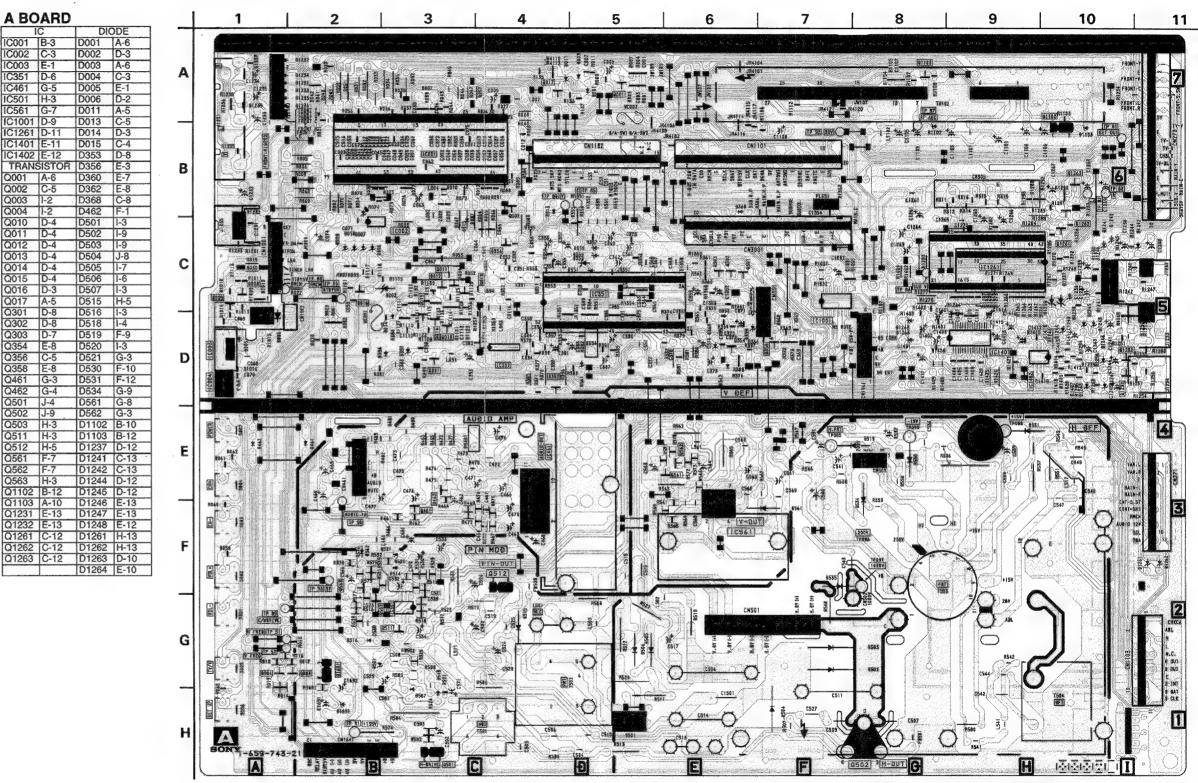
Note: Les composants identifiés per un tramé et une marque A sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

Le symbole indique une fusible a action rapide. Doit etre remplacee par une fusible de meme yaleur, comme maque.

Part replaced(□)	Adjustment(►)
IC351, IC501, D519, D520, D521, C531, C532, R387, R533, R550, T503, A BOARD IC643,R661 G BOARD	R530, R531



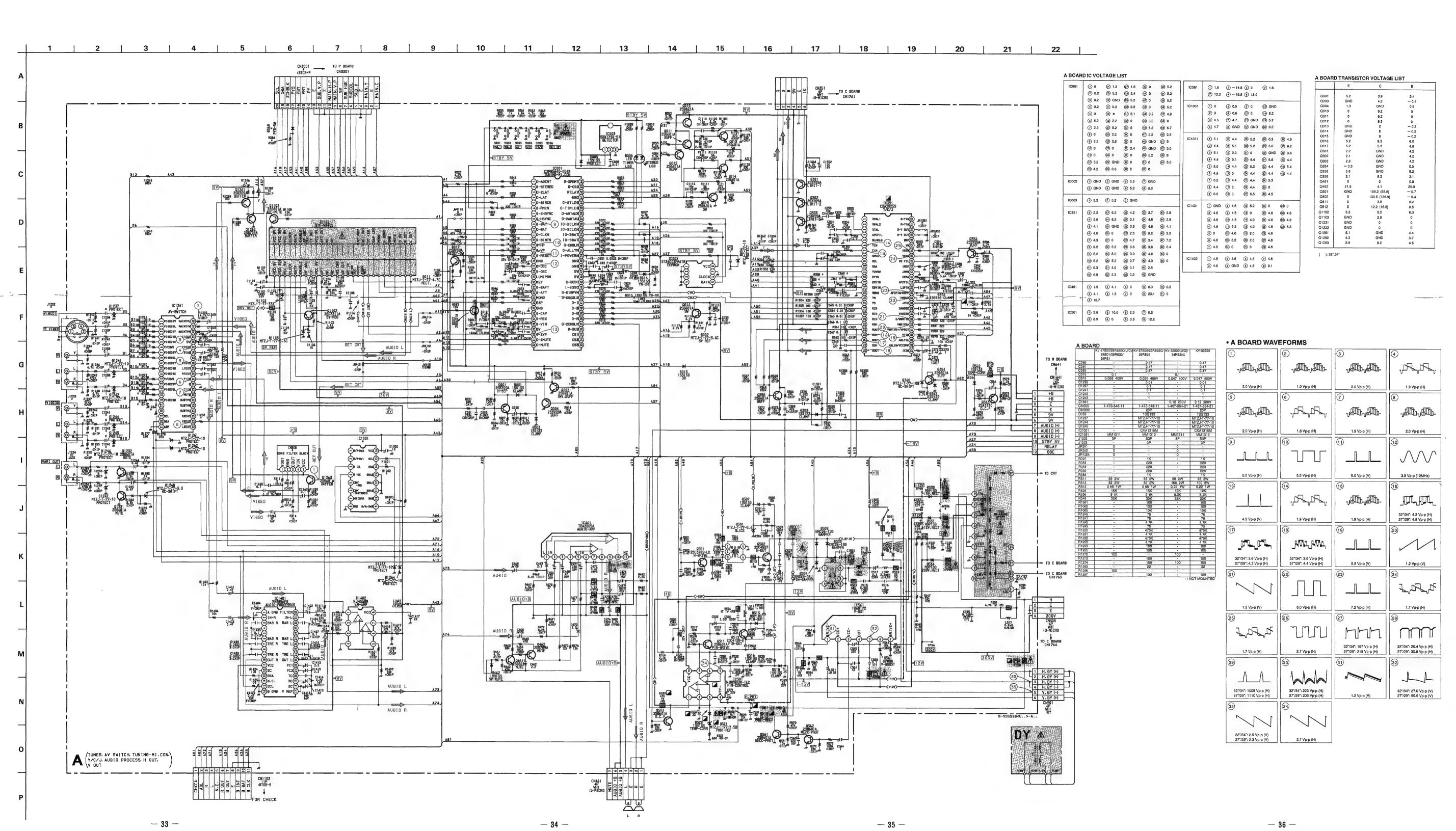
- A BOARD -

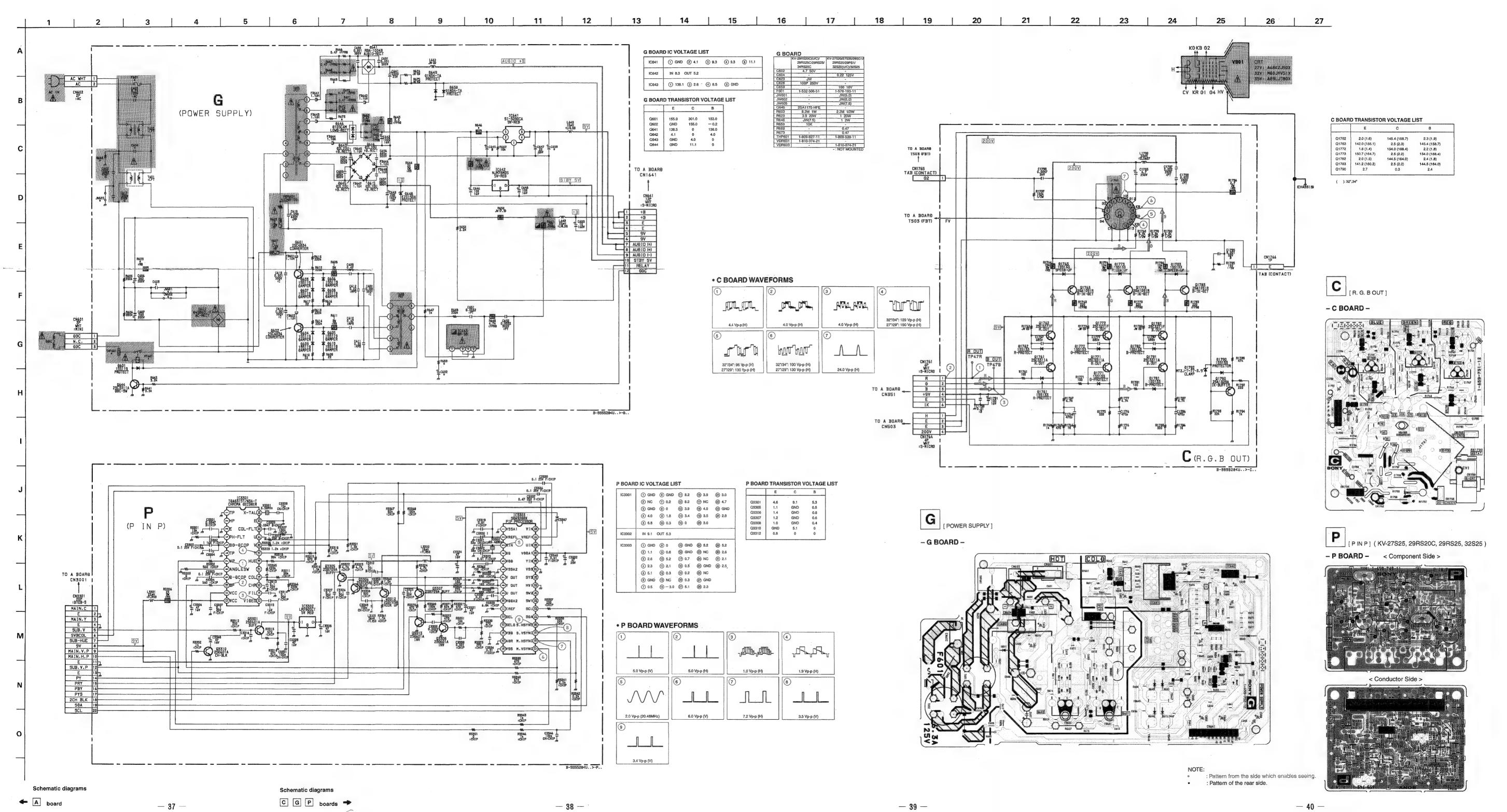


The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

-30 -

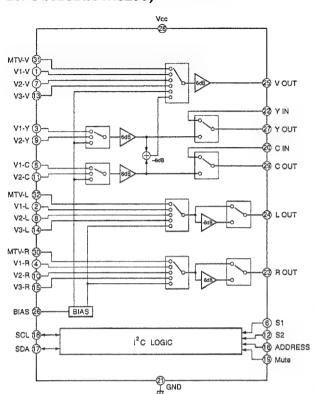
— 31 —



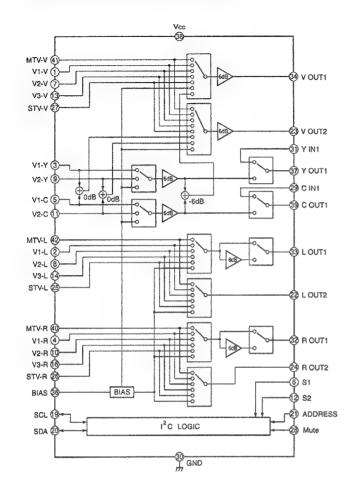


4-4. IC BLOCK DIAGRAMS

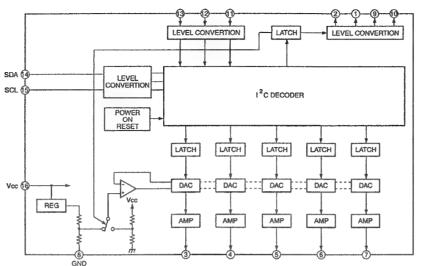
A BOARD IC1261 MM1311AD (KV-27S20/29RS20C/29SD1/29RS20/ 29PS1/32S20/34RS20C)



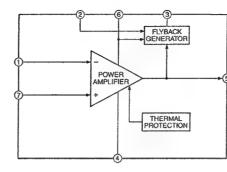
A BOARD IC1261 MM1313 (KV-27S25/29RS25C/29RS25/32S25)

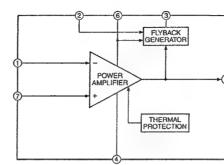


A BOARD IC1001 CXA1315M



A BOARD IC561 TDA8172



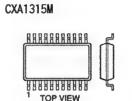


4-5. SEMICONDUCTORS

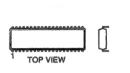
BH3856FS



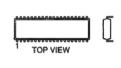
32pin DIP



16pin SOP CXA2025S



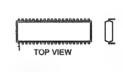
48pin DIP CXP85640-004S



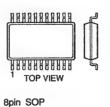
64pin DIP DM-58



4pin SIP MM1311AD MM1313AD



42pin DIP NJM2903M NJM2904M ST24C02FM6TR UPC4558G2 XL24C02Y-BE2-111



2SA1037AK-T146-R 2SA1162-G 2SA1330-06 2SC1623-L5L6 2SD601A-0

2SA1091-0

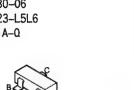
2SA1175-HFE

2SC2785-HFE

2SC2611

2SC4159-E

LETTER SIDE



2SD774-34

D10SC4M

D1NS4

MTZJ-3.3

MTZJ-33A

MTZJ-7.5B

RD10ESB2

RD3. 3ES-B2

RD3.9ES-B2

RD4.3ES-B3 RD5.6ESB2

RD5.6ESB3

RD7.5ESB2

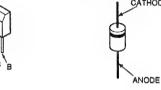
188119-25

1SS133T-77

RD33ESB1

2SC4927-01

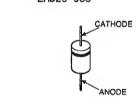




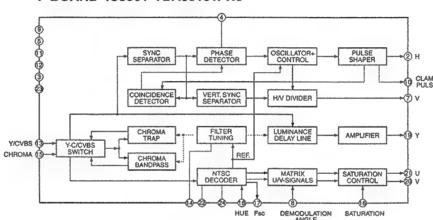
D4SB60L

RBA-1004B

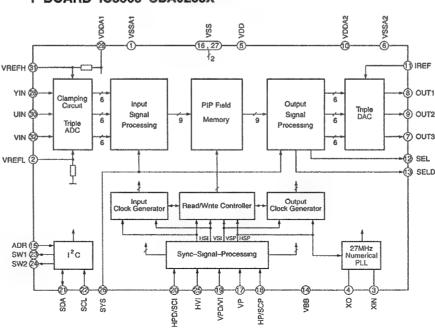
ERD29-08J



P BOARD IC3301 TDA8315T/ N3



P BOARD IC3303 SDA9288X



TDA2009A

NJM78M05FA

TA7805S

SDA9288X

TOP VIEW

32pin SOP

S13090CA





TDA8315T/N3A-T

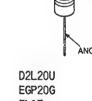
AARRARARA

TOP VIEW

24pin SOP



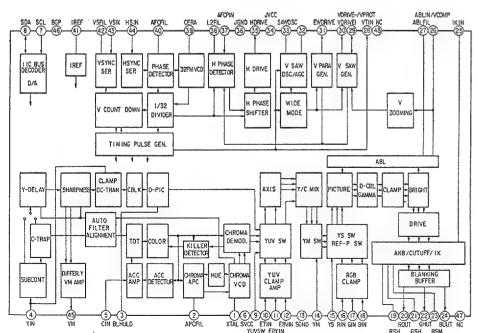




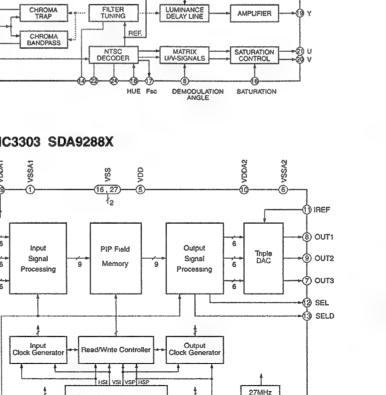
EL1Z GP08D MTZJ-T-77-3.9 MTZJ-T-77-4.3C



A BOARD IC351 CXA2025S



A BOARD IC1401 BH3856FS VC1 VC2 VREF



KV-27\$20/27\$25/29R\$20/29R\$20C/29R\$25/ 29RS25C/29SD1/29PS1/32S20/32S25/34RS20C

SECTION 5 **EXPLODED VIEWS**

NOTE:

- · Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

5-1. PICTURE TUBE ■: BVTP 3X12 7-685-648-79

REF. NO. PART NO. DESCRIPTION

4-046-160-01 EMBLEM (NO.9), SONY

1-504-531-11 SPEAKER (13.1X6.2CM)

4-041-268-01 SCREW (7), TAPPING 3-704-372-31 HOLDER, HV CABLE

* A-1331-516-A C BOARD, COMPLETE 4-036-329-01 SPRING (B), TENSION A 1-406-726-13 COIL, DEGAUSSING

4-052-462-21 COVER, REAR

4-053-005-01 SPACER, DY

4-052-463-41 BEZNET (KV-29PS1/29SD1)

4-052-463-01 BEZNET (KV-27S25/29RS25/29RS25C) 4-052-463-21 BEZNET (KV-27S20/29RS20/29RS20C)

4-388-477-02 SCREW(3X16), TAPPING, +BV WASHER 1 8-733-849-05 PICTURE TUBE 29PXD (A68KZJS0X)

(KV-29RS20C/29RS25C) # 8-733-848-05 PICTURE TUBE 29PXD (A68KZJ50X) (KV-27S20/27S25/29PS1/29RS20/29RS25/29SD1)

I: 8-451-275-42 | DEFLECTION YOKE Y28PFA(VTM) (KV-27S20/27S25/29PS1/29RS20/29RS20C/29RS25/29RS25C/29SD1)

4-052-462-01 COVER, REAR (KV-27S25/29RS25/29RS25C)

(KV-27S20/29PS1/29SD1/29RS20/29RS20C) 4-041-165-01 SCREW (3X12), TAPPING, +BV 4-052-461-01 GUIDE, LED

 Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

cal for safety. specified.

Les composants identifies par une trame et une marque A sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

21) KV-27S25

*A-1297-708-A A BOARD, COMPLETE
(KV-27820/2002)

(KV-27S20/29PS1/29RS20/29RS20C/29SD1) 8-598-341-00 TUNER BTF-WA405 11-453-207-11 TRANSFORMER ASSY, FLYBACK

(KV-27S25/29RS25/29RS25C)

*A-1316-249-A G BOARD, COMPLETE
(KV-27S20/27S25/29PS1/29RS20/29RS25/29SD1)

*A-1316-252-A G BOARD, COMPLETE

10A/125V(KV-29RS20C/29RS25C)

(KV-29RS20C/29RS25C)
23 f.1-751-059-11 CORD, POWER (WITH CONNECTOR)
10a/125V(KV-27S20/27S25/29PS1/29RS20/29RS25/29SD1)

1-769-796-21 CORD, POWER (WITH CONNECTOR)

1-452-094-00 MAGNET, ROTATABLE DISK; 15mmø X-4306-312-9 PERMALLOY ASSY, CONVERGENCE

29RS25C

REMARK

The componants identified by shading and mark A are criti-Replace only with part number

KV-27S20/27S25/29RS20/29RS20C/29RS25/ 29RS25C/29SD1/29PS1/32S20/32S25/34RS20C

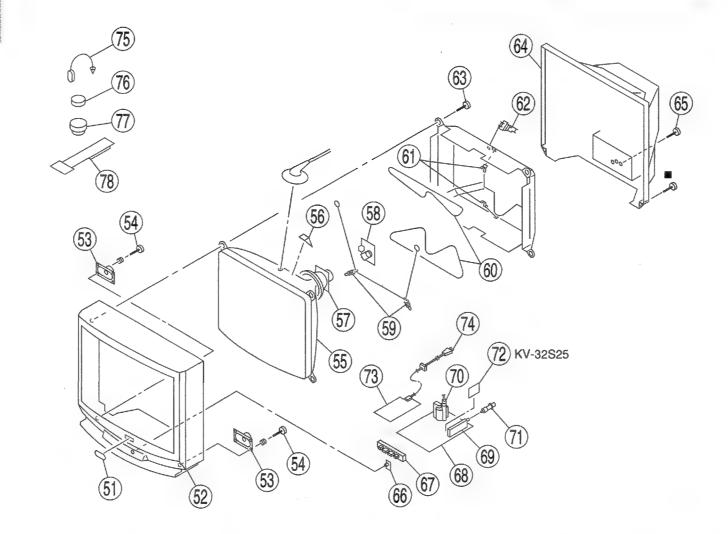
5-2. PICTURE TUBE

■:+BVTP 3X12 7-685-648-79

The componants identified by shading and mark it are critical for safety. Replace only with part number specified.

Les composants identifies par une trame et une marque A sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

REMARK



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION
51	4-046-160-01	EMBLEM,X-RAY	8 8 8	65	4-041-165-01	SCREW (3X12),
52	4-052-599-01	BEZNET (KV-32S25)	i		4-052-461-01	
	4-052-599-21	BEZNET (KV-32S20/34RS20C)				BUTTON, MULT
53	1-504-531-11	SPEAKER (13.1X6.2CM)				A BOARD, COM
	4-388-477-01	SCREW(3X16),TAPPING,+BV	WASHER			A BOARD, COM
55 - A	8-733-743-05	PICTURE TUBE 34FX D2 (SDP)-(M80JYV51X)	69	8-598-341-00	TUNER BTF-WA
		(KV-32S20/32S2S)	70 A	J-453-207-11	TRANSFORMER
4A	8-733-742-05	PICTURE TUBE 34FX1)2 (SDP):(M80JYV51X)		A CONTRACTOR OF THE PARTY OF TH	All and the second
			(KV-34RS20C)	71	1-766-374-11	PLUG, F-PIN
56	4-053-005-01	SPACER, DY		72 *	A-1195-103-A	P BOARD, COM
57. A	8-451-482-11	DEFLECTION YOKE Y34FXA	2	73 *	A-1316-249-A	G BOARD, COM
*******	recommendation of the second	(KV-32S20	V32S25/34RS20C)			
58 *	A-1331-516-A	C BOARD, COMPLETE		*	A-1316-252-A	G BOARD, COM
			E E	74 4	1-751-059-11	CORD, POWER (
59	4-036-329-01	SPRING (B), TENSION	\$ \$			1047545575 24123
60 1	1-402-952-12	COIL, DEMAGNETIZATION (KV-32820/32825)	k	1-769-796-21	CORD. POWER
		COIL, DEMAGNETIZATION (
61	4-371-629-01	STOPPER, WIRE		75	4-308-870-00	CLIP, LEAD WIF
62	4-033-681-01	HOLDER, LEAD	10 EE	76	1-452-032-11	MAGNET,DISC:
63	4-041-268-01	SCREW (7), TAPPING	3 9 9 9	77	1-452-094-00	MAGNET,ROTA
64	4-052-600-01	COVER, DY	1	78	X-4306-312-9	PERMALLOY A
	4-052-600-21	COVER, REAR (KV-32S20/32F	(S20C)			

		4-052-460-01 A-1297-709-A	SCREW (3X12), TAPPING, GUIDE, LED BUTTON, MULTI A BOARD, COMPLETE (KV A BOARD, COMPLETE (KV	7-32 S 25)
S)	69 70 /	8-598-341-00 1-453-207-11	TUNER BTF-WA405 TRANSFORMER ASSY, FL	YBACK
3)			PLUG, F-PIN P BOARD, COMPLETE (KV G BOARD, COMPLETE (KV	
2)	*	A-1316-252-A	G BOARD, COMPLETE (KV CORD, POWER (WITH CON	7-34RS20C) INECTOR)
5)	ń,	1-769-796-21	CORD, POWER (WITH CON	V(KV-32820/32825) INECTOR) 125V(KV-34R S 20C)
	75 76	4-308-870-00 1-452-032-11	CLIP, LEAD WIRE MAGNET, DISC; 10mmø	
	77 78	1-452-094-00 X-4306-312-9	MAGNET, ROTATABLE DIS PERMALLOY ASSY, CONV	

KV-27S20/27S25/29RS20/29RS20C/29RS25/ 29RS25C/29SD1/29PS1/32S20/32S25/34RS20C

NOTE:

SECTION 6

ELECTRICAL PARTS LIST

Les composants identifies par une trame et une marque A sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The componants identified by shading and mark 🛆 are critical for safety. Replace only with part number specified.

• The components identified by M in this manual have been carefully factory- selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

 Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

 All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS

· All resistors are in ohms • F : nonflammable

PF: μμ F • There are some cases the reference number on one board overlaps on the other board. Therefore,

please include the board name.

CAPACITORS

when ordering parts by the reference number, please include the board name.

When indicating parts by reference number,

REF. NO.	PART NO.	DESCRIPTION		Ē	REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
	* 4 1207 707 4	A BOARD, CO	מדס זמע			C378	1-136-244-11	FILM	0.1MF	5%	50V
	- A-1291-101-A	**************************************	*****	29RS250	C(E))	C379 C380 C383	1-164-232-11 1-126-935-11 1-137-399-11		0.01MF 470MF 0.1MF	10% 20% 5%	50V 16V 50V
	*4-051-927-01 CASE, SHIELD 4-382-854-11 SCREW (M3X10), P, SW (+)					C385 C386	1-164-182-11	CERAMIC CHIP CERAMIC CHIP	0.0033MF		50V 50V
		<capacitor></capacitor>				C387 C388 C390	1-124-925-11 1-124-902-00 1-124-903-11	ELECT	2.2MF 0.47MF 1MF	20% 20% 20%	50V 50V 50V
C001 C003 C005		CERAMIC CHIP CERAMIC CHIP ELECT		5% 10% 20%	50V 50V 50V	C391 C392	1-163-017-00	CERAMIC CHIP CERAMIC CHIP	0.0047MF	10% .	50V 50V
C009 C010	1-126-967-11		47MF	20%	50V 50V	C462 C463 C466	1-124-925-11 1-124-925-11 1-104-666-11	ELECT	2.2MF 2.2MF 220MF	20% 20% 20%	50V 50V 25V
C011 C012 C013	1-164-005-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.47MF		50V 25V 50V	C468 C470	1-104-664-11 1-124-925-11	ELECT		20% 20%	25V 50V
C023 C028	1-163-125-00	CERAMIC CHIP CERAMIC CHIP	220PF	5% 0.5PF	50V 50V	C471 C472 C473	1-104-666-11 1-136-173-00 1-136-169-00	FILM	220MF 0.47MF 0.22MF	20% 5% 5%	25V 50V 50V
C029 C035 C036	1-163-237-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	27PF	0.5PF 5% 5%	50V 50V 50V	C474 C475	1-126-942-61 1-136-169-00	ELECT	1000MF 0.22MF	20% 5%	25V 50V
C051 C053	1-164-161-11	CERAMIC CHIP CERAMIC CHIP	0.0022MF		50V 50V	C476 C477 C501	1-126-942-61 1-126-942-61 1-102-110-00	ELECT	1000MF 1000MF 220PF	20% 20% 10%	25V 25V 50V
C061 C062 C063		CERAMIC CHIP CERAMIC CHIP ELECT		20%	50V 50V 16V	C502 C503	1-124-902-00		0.47MF	20% 10%	50V 50V
C068 C071	1-164-096-11 1-164-096-11		0.01MF 0.01MF		50V 50V	C504 C505 C506	1-102-212-00 1-102-002-00 1-106-383-00	CERAMIC	820PF 680PF 0.047MF	10% 10% 10%	500V 500V 200V
C072 C353 C354	1-163-231-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	15PF	10% 5% 5%	50V 50V 50V		1-162-116-51 1-102-244-00	CERAMIC	680PF 220PF	10% 10%	2KV 500V
C355 C356	1-124-902-00 1-126-963-11	ELECT	0.47MF 4.7MF	20% 20%	50V 50V		1-162-116-00 1-106-367-00 1-115-460-11	MYLAR FILM	680PF 0.01MF 0.022MF	10% 10% 3%	2KV 100V 1,2KV
C357 C358 C359	1-126-933-11	CERAMIC CHIP ELECT	100MF	20% 10% 20%	50V 50V 16V	.C514 £		FILM		5% 5%	400V 200V
C360 C361	1-124-902-00 1-124-902-00	ELECT	0.47MF 0.47MF	20%	50V 50V	C515 C516 C517	1-106-343-00 1-115-461-11 1-107-649-11	FILM ELECT	0.001MF 2MF 2.2MF	10% 5% 20%	100V 200V 250V
C362 C363 C364	1-164-232-11	CERAMIC CHIP CERAMIC CHIP	0.01MF	20% 10% 10%	50V 50V 50V	C518 C519	1-106-395-00 1-162-815-11	CERAMIC	0.15MF 47PF	10% 5%	200V 500V
C365 C366	1-137-399-11		0.1MF	10% 5%	50V 50V	C520 C521 C522	1-124-903-11	CERAMIC CHIP ELECT	IMF	20%	500V 50V 50V
C367 C368 C369		FILM CERAMIC CHIP		5% 5% 5%	50V 50V 50V	C525 C526	1-102-244-00 1-107-662-11	ELECT	22MF .	.10% .20%	500V 250V
C370 C371	1-163-141-00	CERAMIC CHIP CERAMIC CHIP	0.001MF	10% 5%	50V 50V	C527 C528 C529	1-128-551-11	CERAMIC CHIP ELECT	22MF	20%	2KV 50V 25V
C372 C373 C376	1-124-902-00 1-124-903-11 1-126-964-11	ELECT ELECT	0.47MF 1MF 10MF	20% 20% 20%	50V 50V 50V	C530 C531	1-137-366-11 1-126-965-11	ELECT	0.0022MF 22MF	20%	50V 50V
C377	1-137-399-11	FILM	0.1MF	5%	50V	C532	1-126-965-11	ELECT	22MF	20%	50V

REMARK | REF. NO. PART NO. DESCRIPTION

4-052-460-01 BUTTON, MULTI

* A-1297-707-A A BOARD, COMPLETE

1-766-374-11 PLUG, F-PIN *A-1195-103-A P BOARD, COMPLETE

4-308-870-00 CLIP, LEAD WIRE

1-452-032-00 MAGNET, DISC; 10mmø

The componants identified by shading and mark \hat{d} , are critical for safety. Replace only with part number specified.

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REF. NO.	PART NO.	DESCRIPTION	•	· .	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C537 C539 C540 C541	1-126-941-11 1-126-935-11 1-123-024-21 1-128-560-11	ELECT ELECT	470MF 470MF 33MF 22MF	20% 20% 20%	25V 16V 160V 100V	CM305	1-473-548-11	FILTER BLOCK, COMB	
C545 C561 C563 C564 C565	1-106-387-00 1-126-967-11 1-126-923-11 1-124-903-11 1-126-969-11	ELECT ELECT ELECT	0.068MF 47MF 220MF 1MF 220MF	10% 20% 20% 20% 20%	200V 50V 10V 50V 50V	CN351 CN461 CN501 CN503 CN1103	* 1-564-507-11 * 1-580-798-11 * 1-564-507-11	CONNECTOR> PLUG, CONNECTOR 6P PLUG, CONNECTOR 4P CONNECTOR PIN (DY) 6P PLUG, CONNECTOR 4P CONNECTOR, BOARD TO	ROARD 11P
C566 C568 C571 C1002 C1101	1-126-964-11 1-137-399-11 1-104-664-11 1-126-964-11 1-126-768-11	FILM ELECT ELECT	10MF 0.1MF 47MF 10MF 2200MF	20% 5% 20% 20% 20%	50V 50V 25V 50V 16V	CN1641	* 1-564-515-11	PLUG, CONNECTOR 12P CONNECTOR, BOARD TO	
C1103 C1104 C1105 C1106 C1107		ELECT ELECT ELECT CERAMIC CHIP		20% 20% 20% 20% 10%	50V 16V 16V 50V 50V	D001 D002 D003 D004 D005	8-719-109-89 8-719-991-33 8-719-110-17	<pre><diode> DIODE 1SS133T-77 DIODE RD5.6ESB2 DIODE 1SS133T-77 DIODE RD10ESB2 DIODE 1SS133T-77</diode></pre>	
C1108 C1109 C1110 C1111 C1112	1-163-227-11		10PF	20% 20% 0.5PF 0.5PF 0.5PF	50V 50V 50V 50V 50V	D006 D011 D013 D014 D015	8-719-991-33 8-719-991-33	LED UNIT DIODE MTZJ-T-77-4.3C DIODE 1SS133T-77 DIODE 1SS133T-77 DIODE 1SS133T-77	
C1236 C1237 C1238 C1239 C1240	1-163-031-11 1-136-165-00 1-136-165-00 1-124-903-11 1-124-903-11	FILM ELECT	0.01MF 0.1MF 0.1MF 1MF 1MF	5% 5% 20% 20%	50V 50V 50V 50V 50V	D353 D356 D360 D362 D368	8-719-991-33 8-719-110-17 8-719-991-33	DIODE 1SS133T-77 DIODE 1SS133T-77 DIODE RD10ESB2 DIODE 1SS133T-77 DIODE 1SS133T-77	
C1241 C1242 C1243 C1244 C1245	1-136-165-00 1-124-903-11 1-124-903-11 1-124-902-00 1-124-902-00	ELECT ELECT ELECT	0.1MF 1MF 1MF 0.47MF 0.47MF	5% 20% 20% 20% 20%	50V 50V 50V 50V 50V	D462 D501 D502 D503 D504	8-719-991-33 8-719-109-89 8-719-945-80 8-719-945-80	DIODE 1SS133T-77 DIODE RD5.6ESB2 DIODE ERC06-15S DIODE ERC06-15S DIODE ERC09-08J	
C1261 C1262 C1263 C1264 C1265	1-126-967-11 1-126-967-11 1-124-903-11 1-124-903-11 1-136-165-00	ELECT ELECT ELECT	47MF 47MF 1MF 1MF 0.1MF	20% 20% 20% 20% 5%	16V 16V 50V 50V 50V	D505 D506 D507 D515 D516	8-719-908-03 8-719-908-03 8-719-991-33 8-719-302-43	DIODE GP08D DIODE GP08D DIODE ISS133T-77 DIODE EL1Z DIODE ISS133T-77	
C1266 C1267 C1268 C1269 C1270	1-107-701-11 1-136-165-00 1-124-903-11 1-124-903-11 1-164-232-11	FILM ELECT	47MF 0.1MF 1MF 1MF 0.01MF	20% 5% 20% 20% 10%	16V 50V 50V 50V 50V	D518	8-719-991-33 8-719-302-43 8-719-991-33 8-719-921-63	DIODE 1SS133T-77	٠.
C1351 C1352 C1353 C1354 C1401	1-126-933-11 1-163-037-11	CERAMIC CHIP CONDUCTOR, C	100MF 0.022MF	5% 20% 10% 20%	50V 16V 50V	D531 D534 D561 D562 D1102	8-719-979-85 8-719-302-43 8-719-908-03 8-719-991-33	DIODE EGP20G DIODE EL1Z DIODE GP08D DIODE ISS133T-77 DIODE MTZJ-33A	
C1402 C1403 C1404 C1405 C1406	1-165-319-11		0.1MF	20% 20%	50V 50V 50V 50V 50V	D1103 D1237 D1241 D1242 D1244	8-719-109-89 8-719-110-17 8-719-110-17 8-719-110-17	DIODE RD5.6ESB2 DIODE RD10ESB2 DIODE RD10ESB2 DIODE RD10ESB2 DIODE RD10ESB2	
C1407 C1408 C1409 C1410 C1411	1-164-161-11 1-164-161-11 1-164-161-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.0022MF 0.0022MF 0.0022MF	10% 10%	50V 50V 50V 50V 50V	D1245 D1246 D1247 D1248 D1261	8-719-110-17 8-719-110-17 8-719-110-17 8-719-981-99	DIODE RD10ESB2 DIODE RD10ESB2 DIODE RD10ESB2 DIODE MTZJ-3.3 DIODE RD10ESB2	
C1412 C1413 C1414 C1415 C1416	1-124-925-11 1-124-925-11 1-164-489-11 1-126-965-11 1-126-933-11	ELECT CERAMIC CHIP ELECT	2.2MF 2.2MF 0.22MF 22MF 100MF	20% 20% 10% 20% 20%	50V 50V 16V 50V 16V	D1262 D1263 D1264	8-719-110-17 8-719-110-17	DIODE RD10ESB2 DIODE RD10ESB2 DIODE RD10ESB2	
C1417 C1420	1-126-965-11 1-164-005-11	ELECT CERAMIC CHIP	22MF 0.47MF	20%	50V 25V	8 4 5 5 7 7		<ferrite bead=""></ferrite>	
		<filter block<="" td=""><td><></td><td></td><td></td><td>FB501 FB502 FB503</td><td>1-410-397-21</td><td>FERRITE BEAD INDUCTOR FERRITE BEAD INDUCTOR FERRITE BEAD INDUCTOR</td><td>R I.1UH</td></filter>	<>			FB501 FB502 FB503	1-410-397-21	FERRITE BEAD INDUCTOR FERRITE BEAD INDUCTOR FERRITE BEAD INDUCTOR	R I.1UH

KV-27S20/27S25/29RS20/29RS20C/29RS25/ RM-Y135 RM-Y136 RM-Y135 RM-Y135 RM-Y136 RM-Y136 RM-Y135 RM-Y135



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The componants identified by shading and mark \int_{Σ} are critical for safety. Replace only with part number specified.

					, 5 2		ороолюа		
REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPT!ON			REMARK
		<ic></ic>		Q302 Q303		TRANSISTOR 2: TRANSISTOR 2:			
IC001 IC002 IC003 IC351 IC461	8-759-354-28 8-747-905-11 8-752-076-08	IC CXP85640-004S IC ST24C02FM6TR IC SBX1790-51 IC CXA2025S IC TDA2009A		Q354 Q356 Q358 Q461 Q462	8-729-216-22 8-729-422-27 8-729-422-27	TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2:	SA1162-G SD601A-Q SD601A-Q		
IC501 IC561 IC1001 IC1261 IC1401	8-759-980-58 (8-752-058-68 8-759-366-78	IC NJM2903M IC TDA8172 IC CXA1315M IC MM1313AD IC BH3856FS-E2		Q501 Q502 Q503 Q511 Q512	8-729-016-32 8-729-422-27 8-729-422-27	TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2:	SC4927-01 SD601A-Q SD601A-Q		
IC1402	8-759-100-96	IC uPC4558G2		Q561 Q562 Q563 Q1102	8-729-422-27 8-729-105-08	TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2:	SD601A-Q SA1330-O6	Ē	
		<jack></jack>		Q1103	8-729-422-27	TRANSISTOR 2	SD601A-Q		
J1232 J1233 J1234	1-774-749-11	TERMINAL BLOCK, S JACK BLOCK, PIN JACK BLOCK, PIN		Q1231 Q1232 Q1261 Q1262 Q1263	8-729-422-27 8-729-216-22 8-729-216-22	TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2:	SD601A-Q SA1162-G SA1162-G		
		<chip conductor=""></chip>							
JR001 JR1351	1-216-295-91	CONDUCTOR, CHIP CONDUCTOR, CHIP				<resistor></resistor>			
JR1352 JR4101 JR4108	1-216-295-91	CONDUCTOR, CHIP CONDUCTOR, CHIP CONDUCTOR, CHIP		R001 R002 R003 R004	1-247-815-91 1-216-097-91	METAL GLAZE CARBON METAL GLAZE METAL GLAZE	220 100K	5% 5% 5% 5%	1/10W 1/4W 1/10W 1/10W
JR4110 JR4114		CONDUCTOR, CHIP CONDUCTOR, CHIP		R005	1-247-815-91		220	5%	1/4W
JR4116 JR4121	1-216-295-91	CONDUCTOR, CHIP CONDUCTOR, CHIP		R007 R009 R010 R011	1-216-073-00 1-216-037-00 1-216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 330 4.7K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W
		<coil></coil>		R012	1-216-033-00	METAL GLAZE	220	5%	1/10W
L001 L002 L003 L004 L352	1-408-421-00 1-410-470-11 1-410-470-11	INDUCTOR 100UH INDUCTOR 100UH INDUCTOR 10UH INDUCTOR 10UH INDUCTOR 10UH		R013 R014 R015 R016 R019	1-216-065-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE CARBON	4.7K 10K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/4W
L461 L501 L502 L503 L511	1-412-552-11 1-406-677-11	INDUCTOR 10UH COIL, HORIZONTAL LINEARITY INDUCTOR 2.2mH COIL, CHOKE 10mH COIL, CHOKE 15mH	·.· · · · .	R020 R023 R024 R025 R026	1-216-089-91 1-216-085-00 1-216-121-91	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	47K 33K 1M	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
L517 L1101 L1102 L1401	1-408-421-00 1-410-470-11	INDUCTOR 2.2mH INDUCTOR 100UH INDUCTOR 10UH INDUCTOR 100UH		R027 R028 R029 R030 R032	1-249-417-11	METAL GLAZE CARBON	1 K	5% 5% 5% 5% 5%	1/10W 1/4W 1/10W 1/4W 1/4W
		<ic link=""></ic>		R034	1-247-815-91		220	5%	1/4W
PS461	А 1-532-984-91	LINK, IC (2A/90V)	٠. ٠	R035 R036 R037 R038	1-216-049-91	METAL GLAZE METAL GLAZE METAL GLAZE	IK	5% 5% 5% 5%	1/4W 1/10W 1/10W 1/10W
		<transistor></transistor>	-	R039	1-247-807-31		100	5%	1/4W
Q001 Q002 Q003 Q004 Q010	8-729-422-27 8-729-422-27 8-729-216-22	TRANSISTOR 2SA1162-G TRANSISTOR 2SD601A-Q TRANSISTOR 2SD601A-Q TRANSISTOR 2SA1162-G TRANSISTOR 2SD601A-Q		R044 R046 R047 R048		METAL GLAZE CARBON CARBON		5% 5% 5% 5%	1/4W 1/10W 1/4W 1/4W 1/4W
Q011 Q012 Q013 Q014	8-729-422-27 8-729-422-27 8-729-422-27 8-729-422-27	TRANSISTOR 2SD601A-Q TRANSISTOR 2SD601A-Q TRANSISTOR 2SD601A-Q TRANSISTOR 2SD601A-Q		R049 R051 R052 R053 R054	1-216-061-00		3.3K	5% 5% 5% 5% 5%	1/4W 1/4W 1/10W 1/10W 1/10W
Q015 Q016 Q017 Q301	8-729-422-27 8-729-216-22	TRANSISTOR 2SD601A-Q TRANSISTOR 2SD601A-Q TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G		R055 R056 R057 R058	1-216-033-00 1-249-417-11	METAL GLAZE METAL GLAZE CARBON METAL GLAZE	220 1K	5% 5% 5% 5%	1/10W 1/10W 1/4W 1/10W

The componants identified by shading and mark \triangle are critical for safety.

Replace only with part number specified.

" (89),

Les composants identifies par une trame et une marque \(\hat{\Delta}\) sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

• The components identified by in this manual have been carefully factory- selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.



REF. NO.	PART NO.	DESCRIPTION		Ī	REMARK	REF. NO.	PART NO.	DESCRIPTION		į	REMARK	[
R059	1-216-047-91	METAL GLAZE	820	5%	1/10 W	R386 R387		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W	
R060		METAL GLAZE		5%	1/10W	R388		METAL GLAZE		5%	1/10W	
R061 R062		METAL GLAZE METAL GLAZE		5% 5%	1/10W	Dago	1 01/ 0/7 00	METAL CLASE	F 637	~~		
R063		METAL GLAZE		5%	1/10W 1/10W	R389 R390		METAL GLAZE METAL GLAZE		5%	1/10W	
R064	1-247-815-91		220	5%	1/4W	R391		METAL GLAZE		5% 0.50%	1/10W 1/10W	
	1 2 010 71	CINDON	220	570	17777	R392		METAL GLAZE		5%	1/10W	
R065	1-247-815-91	CARBON	220	5%	1/4W	R393		METAL GLAZE		5%	1/10W	
R066	1-247-815-91		220	5%	1/4W				200	5 70	1/10//	
R067	1-249-413-11		470	5%	1/4W	R394		METAL GLAZE		5%	1/10W	
R068	1-247-815-91		220	5%	1/4W	R395		METAL GLAZE		5%	1/10W	
R069	1-247-815-91	CARBON	220	5%	1/4W	R397	1-249-425-11		4.7K	5%	1/4W	
R070	1-247-815-91	CARRON	220	5%	1/4W	R461 R462		METAL CLAZE		5%	1/10W	
R071	1-247-815-91		220	5%	1/4W	K402	1-210-009-91	METAL GLAZE	4/K	5%	1/10 W	
R072		METAL GLAZE		5%	1/10W	R463	1-249-435-11	CARBON	33K	5%	1/4W	
R073		METAL GLAZE		5%	1/10W	R464		METAL GLAZE		5%	1/10W	
R074	1-216-033-00	METAL GLAZE	220	5%	1/10W	R465	1-249-413-11	CARBON	470	5%	1/4W	
D075	1 216 022 00	METAL CLASS	220		1 (1 0777	R466	1-126-933-11		100MF	20%	16V	
R075 R076		METAL GLAZE METAL GLAZE		5%	1/10W	R467	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W	
R077		METAL GLAZE		5% 5%	1/10W 1/10W	R469	1 216 071 00	METAL CLASE	0 01/	501	1/10337	
R078	1-249-417-11		1K	5%	1/4W	R471		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W	
R079		METAL GLAZE		5%	1/10W	R472		METAL GLAZE		5%	1/10W	
						R473	1-249-398-11		27	5%	1/4W	
R080		METAL GLAZE		5%	1/10W	R475	1-249-430-11		12K	5%	1/4W	
R081		METAL GLAZE		5%	1/10W							
R082 R083		METAL GLAZE		5%	1/10W	R476	1-249-430-11		12K	5%	1/4W	
R084	1-249-429-11	METAL GLAZE	10K	5% 5%	1/4W 1/10W	R477	1-249-398-11		27	5%	1/4W	
1004	1-210-049-91	METAL GLAZE	1K	370	1/10 W	R478 R479	1-249-418-11 1-249-418-11		1.2K 1.2K	5% 5%	1/4W 1/4W	F
R087	1-247-815-91	CARBON	220	5%	1/4W	R480	1-249-385-11		2.2	5%	1/4W 1/4W	F
R092	1-249-429-11		10 K	5%	1/4W	1000	1 2 (3 303 11	CHREON	2.2	570	1/7 **	1
R097		METAL GLAZE		5%	1/10W	R481	1-249-385-11	CARBON	2.2	5%	1/4W	F
R099		METAL GLAZE		5%	1/10W	R482	1-249-421-11		2.2K	5%	1/4W	
R131	1-216-035-00	METAL GLAZE	270	5%	1/10W	R483	1-249-421-11		2.2K	5%	1/4W	
R132	1-216-115-00	METAL GLAZE	560V	5%	1/10W	R501		METAL GLAZE		5%	1/10W	
R133		METAL GLAZE		5%	1/10W	R502	1-210-001-00	METAL GLAZE	3.3K	5%	1/10 W	
R135		METAL GLAZE		5%	1/10W	R503	1-249-426-11	CARBON	5.6K	5%	1/4W	F
R136		METAL GLAZE		5%	1/10W	R504		METAL OXIDE		5%	3W	F
R137	1-216-047-91	METAL GLAZE	820	5%	1/10W	R505	1-249-431-11		15K	5%	1/4W	•
5011						R506	1-215-861-00	METAL OXIDE	47	5%	1W	F
R311		CONDUCTOR, C			4.14.000	R507	1-249-401-11	CARBON	47	5%	1/4W	
R312 R313		METAL GLAZE		5%	1/10W	D.500	1 0 10 107 11	CARRON				
R314	1-216-293-91	CONDUCTOR, C METAL GLAZE	HIP	5%	1/10W	R508 R509	1-249-427-11		6.8K	5%	1/4W	-
R353	1-208-786-11	METAL GLAZE	1.5K	0.50%	1/10W	R510	1-247-750-11	METAL OXIDE	680	5% 5%	1/2W 1W	F F
		,	2.012	0.0070	171011	R511		METAL OXIDE		5%	2W	F
R354	1-216-077-00	METAL GLAZE	15K	5%	1/10W	R512		METAL OXIDE		5%	2W	F
R355		METAL GLAZE		5%	1/10W							
R356	1-216-033-00	METAL GLAZE	220	5%	1/10W	R513		METAL OXIDE		5%	1 W	F
R358 R359	1-247-815-91	CARBON	220	5%	1/4W	R515		METAL GLAZE		5%	1/10W	
K339	1-247-013-91	CARBON	220	5%	1/4W	R516 R517	1-216-057-00	METAL GLAZE	680	5%	1/10W	
R360	1-247-815-91	CARBON	220	5%	1/ 4W	R517		METAL GLAZE		5% 5%	1/4W 1/10W	
R361		METAL GLAZE		5%	1/10W	1010	1 210 075 00	METAL GLALL	TOIL	5 70	1/10**	
R362		METAL GLAZE		5%	1/10W	R519	1-249-411-11	CARBON	330	5%	1/4W	
R363		METAL GLAZE		5%	1/10W	R521		METAL GLAZE		5%	1/10W	
R364	1-216-101-00	METAL GLAZE	150K	5%	1/10W	R523		METAL GLAZE		5%	1/10W	
R365	1-216-105-01	METAL GLAZE	22017	5%	1/10 W	R524 R525	1-249-429-11		10K	5%	1/4W	
R366		METAL GLAZE		5%	1/10W	K323	1-210-071-00	METAL GLAZE	0.2K	5%	1/10W	
R367		METAL GLAZE		5%	1/10W	R528	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R368	1-249-441-11		100K	5%	1/4W	R529		METAL GLAZE		0.50%	1/10W	
R369	1-216-097-91	METAL GLAZE	100K	5%	1/10W	MR530 /	A	METAL GLAZE			1/10W	
D270	1 216 112 22	1477041 07 15	450**	F 64			Δ	METAL GLAZE			1/10W	
R372 R373		METAL GLAZE METAL GLAZE		5%	1/10W	R532	1-208-760-11	METAL GLAZE	120	0.50%	1/10W	
R374	1-216-073-00	METAL GLAZE	1 5M	5% 5%	1/10W 1/10W	R533	1-215 002 11	METAL OXIDE	17K	50%	1W	E
R375		METAL GLAZE		5%	1/10W	R535		METAL GLAZE		5% 5%	1/10W	F
R376	1-216-073-00	METAL GLAZE	10K	5%	1/10W		1-210-101-00 1-249-377-11		0.47	5%	1/4W	F
			_				1.249-377-11		0.47	5%	1/4W	
R379		METAL GLAZE		5%	1/10W	R538	1-247-887-00		220K	5%	1/4W	
R380	1-247-815-91		220	5%	1/4W	200						
R381 R382	1-247-815-91		220	5%	1/4W	R546	1-215-456-00		30K	1%	1/4W	
R382 R383		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W	R547 R549	1-215-457-00 1-215-437-00		33K	1%	1/4W	
1100	. 210-0 1 7-71	HEIRE GLAZE	1.1%	J 10	1/1044		1-215-437-00 1-249-377-11		4.7K 0.47	1% 5%	1/4W 1/4 W	F
R384	1-216-109-00	METAL GLAZE	330K	5%	1/10W	R551		METAL OXIDE		5%	174 W	F
R385	1-249-422-11		2.7K	5%	1/4W							-
						i						



Les composants identifies par une trame et une marque A sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The componants identified by shading and mark \triangle are critical for safety. Replace only with part number specified.

REF. NO. PART NO. D	DESCRIPTION	R	REMARK	REF. NO.	PART NO.	DESCRIPTION		REMARK
R553 A 1-249-377-11 C R561 1-216-073-00 N		5% 5%	1/4W F 1/10W	R1260	1-216-061-00	METAL GLAZE	3.3K 5%	1/10W
R563 1-216-351-00 N R564 1-249-393-11 C	METAL OXIDE 1.5 CARBON 10	5% 5%	1W F 1/4W	R1261 R1262		METAL GLAZE METAL GLAZE		1/10W 1/10W
		5%	2W F	R1263 R1264	1-216-025-91	METAL GLAZE METAL GLAZE	100 5%	1/10W 1/10W
R567 & 1-249-385-11 C	CARBON 2.2	5% 5% 5%	1/10W 1/4W F 1/10W	R1265 R1266		METAL GLAZE		1/10W 1/10W
R569 1-216-073-00 N	METAL GLAZE 10K	5% 5%	1/10W 1/10W	R1273 R1274	1-216-025-91	METAL GLAZE METAL GLAZE	100 5%	1/10W 1/10W 1/10W
		5%	1/10W	R1277 R1278	1-247-815-91 1-247-815-91	CARBON	220 5% 220 5%	1/4W 1/4W
R573 1-216-097-91 N	METAL GLAZE 100K	5% 5% 5%	1/10W 1/10W 2W F	R1280 R1282		METAL GLAZE METAL GLAZE		1/10W 1/10W
R575 1-216-113-00 N		5%	1/10W	R1283 R1284	1-247-791-91 1-247-807-31	CARBON	22 5% 100 5%	1/4W 1/4W
R577 1-216-097-91 N	METAL GLAZE 100K	5% 5%	1/10W 1/10W	R1286	1-216-049-91	METAL GLAZE	1K 5%	1/10W
	METAL GLAZE 330K (0.50% 0.50%	1/10W 1/10W	R1287 R1288 R1290	1-247-807-31		100 5%	1/10W 1/4W
R1001 1-247-807-31 C		5% 5%	1/4W 1/4W	R1290 R1291 R1292	1-216-045-00	METAL GLAZE METAL GLAZE METAL GLAZE	680 5%	1/10W 1/10W 1/10W
R1002 1-247-807-31 C R1005 1-216-073-00 N	CARBON 100 S METAL GLAZE 10K	5% 5%	1/4W 1/10W	R1293		METAL GLAZE		1/10W
		5% 5%	1/10W 1/10W	R1294 R1295 R1297	1-216-049-91	METAL GLAZE	1K 5%	1/10W 1/10W
		5% 5%	1/10W 2W F	R1351	1-247-815-91	METAL GLAZE CARBON	100 5% 220 5%	1/10W 1/4W
R1104 1-216-083-00 N	METAL GLAZE 27K 5	5% 5%	1/10W 1/10W	R1352 R1353	1-247-815-91 1-247-815-91	CARBON	220 5% 220 5%	1/4W 1/4W
		5% 5%	1/10W 1/10W	R1354 R1355 R1356	1-216-025-91	METAL GLAZE METAL GLAZE METAL GLAZE	100 5%	1/10W 1/10W 1/10W
R1107 1-216-065-00 M	METAL GLAZE 4.7K	5% 5%	1/10W 1/10W	R1357		METAL GLAZE		1/10W
		5% 5%	1/10W 1/10W	R1358 R1359		METAL GLAZE		1/4W 1/10W
		5% 5%	1/10W 1/10W	R1360 R1361		METAL GLAZE METAL GLAZE		1/10W 1/10W
R1117 1-249-425-11 C R1118 1-249-425-11 C	CARBON 4.7K	5% 5%	1/4W 1/4W	R1362 R1402	1-216-295-91 1-249-429-11	CONDUCTOR, C	HIP 10K 5%	1/4W
		5%	1/10W	R1404 R1407		METAL GLAZE	10K 5% 10K 5%	1/4 W 1/10 W
R1122 1-216-115-00 N	METAL GLAZE 560K	5% 5% 5%	1/10W 1/10W 1/10W	R1411 R1412		METAL GLAZE		1/10W 1/10W
R1125 1-216-057-00 N	METAL GLAZE 2.2K	5% 5%	1/10W 1/10W	R1413 R1414	1-216-089-91	METAL GLAZE METAL GLAZE	47K 5%	1/10W 1/10W
		5%	1/10W	R1415 R1418		METAL GLAZE METAL GLAZE		1/10W 1/10W
	METAL GLAZE 2.2K	5% 5% 5%	1/10W 1/10W 1/4W	R1419 R1420		METAL GLAZE METAL GLAZE		1/10W 1/10W
R1240 1-216-022-00 N	METAL GLAZE 75	5%	1/10W	R1421 R1424		METAL GLAZE		1/10W 1/4W
	METAL GLAZE 4.7K	5% 5% 5%	1/10W 1/10W 1/4W	R1425	1-247-807-31	CARBON	100 5%	1/4 W
R1244 1-216-022-00 N	METAL GLAZE 75	5% 5% 5%	1/4W 1/10W 1/10W			<switch></switch>		
R1246 1-216-065-00 N	METAL GLAZE 4.7K	5%	1/10W	S001 S002	1-692-431-21	SWITCH, TACTII SWITCH, TACTII	LE	
R1248 1-216-065-00 N	METAL GLAZE 4.7K	5% 5% 5%	1/10W 1/10W 1/10W	S003 S004 S005	1-692-431-21	SWITCH, TACTI	LE	
		5% 5%	1/10W 1/10W	S005		SWITCH, TACTI		
R1252 1-216-113-00 M	METAL GLAZE 470K 5	5% 5%	1/10W 1/10W		1-692-431-21 1 1 1 1 1 1 1 1 1 	SWITCH, TACTI SWITCH, LEVER	LE	
R1254 1-216-113-00 M	METAL GLAZE 470K	5% 5% 5%	1/10W 1/10W 1/10W			<transforme< td=""><td>P.</td><td></td></transforme<>	P.	
R1256 1-216-113-00 M	METAL GLAZE 470K	5%	1/10W	T501	1-437-195-11	TRANSFORMER		DRIVE
R1257 1-216-049-91 M R1258 1-216-061-00 M	METAL GLAZE 1K METAL GLAZE 3.3K	5% 5%	1/10W 1/10W	T502	A 1-424-545-22	TRANSFORMER TRANSFORMER	, FERRITE (PM ASSY, FLYBA	T) CK
R1259 1-216-097-91 M	METAL GLAZE 100K 5	5%	1/10W				N	IX-2609//X4C

The componants identified by shading and mark \triangle are critical for safety.
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REF. NO.	PART NO.	DESCRIPTION		Į	REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
TU102 <i>(</i>	6, 8-598- 341-00	<tuner></tuner>	v405			C383 C385 C386 C387 C388		CERAMIC CHIP CERAMIC CHIP ELECT		5% 10% 10% 20% 20%	50V 50V 50V 50V 50V
X001 X353 X354	1-567-505-11	<crystal> VIBRATOR, CRY OSCILLATOR, COSCILALTOR, COSCILAL</crystal>	CRYSTAL			C390 C391 C392 C462 C463		CERAMIC CHIP CERAMIC CHIP ELECT		20% 10% 5% 20% 20%	50V 50V 50V 50V 50V
*****	******	****	******	*****	*****	C466 C468 C470 C471 C472	1-104-666-11 1-104-664-11 1-124-925-11 1-104-666-11 1-136-173-00	ELECT ELECT ELECT	220MF 47MF 2.2MF 220MF 0.47MF	20% 20% 20% 20% 5%	25V 25V 50V 25V 50V
	* 4-051-927-01	A A BOARD, COI ************************************	******* /S20(CND)/ S20C(E)/29S	SD1(E))	Ξ)	C473 C474 C475 C476 C477	1-136-169-00 1-126-942-61 1-136-169-00 1-126-942-61 1-126-942-61	ELECT FILM ELECT	0.22MF 1000MF 0.22MF 1000MF 1000MF	5% 20% 5% 20% 20%	50V 25V 50V 25V 25V
C001		<pre><capacitor> CERAMIC CHIP</capacitor></pre>		5%	50V	C501 C502 C503 C504 C505	1-102-110-00 1-124-902-00 1-163-003-11 1-102-212-00 1-102-002-00	ELECT CERAMIC CHIP CERAMIC	220PF 0.47MF 330PF 820PF 680PF	10% 20% 10% 10% 10%	50V 50V 50V 500V 500V
C003 C005 C009 C010	1-104-760-11 1-124-903-11 1-126-967-11 1-163-033-91	CERAMIC CHIP ELECT ELECT CERAMIC CHIP	0.047MF 1MF 47MF 0.022MF	10% 20% 20%	50V 50V 50V 50V	C506 C507 C508 C509	1-106-383-00 1-162-116-51 1-102-244-00 1-162-116-00	MYLAR CERAMIC CERAMIC CERAMIC	0.047MF 680PF 220PF 680PF	10% 10% 10% 10%	200V 2KV 500V 2KV
C011 C012 C013 C023 C028	1-164-005-11 1-163-017-00 1-163-125-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.47MF 0.0047MF 220PF		50V 25V 50V 50V 50V	C513 /	1-106-367-00 1-115-460-11 1-130-895-51 1-104-844-11 1-106-343-00	FILM FILM FILM	0.01MF 0.022MF 0.056MF 0.62MF 0.001MF	10% 3% 5% 5% 10%	100V 1.2KV 400V 200V 100V
C029 C035 C036 C051 C053	1-163-237-11 1-163-231-11 1-164-161-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	27PF 15PF 0.0022MF	0.5PF 5% 5% 10% 10%	50V 50V 50V 50V 50V	C516 C517 C518 C519	1-115-461-11 1-107-649-11 1-106-395-00 1-162-815-11	FILM ELECT MYLAR CERAMIC	2MF 2.2MF 0.15MF 47PF	5% 20% 10% 5%	200V 250V 200V 500V
C061 C062 C063 C068 C071	1-163-033-91 1-163-033-91 1-126-935-11 1-164-096-11 1-164-096-11	CERAMIC	0.022MF 0.022MF 470MF 0.01MF	20%	50V 50V 16V 50V 50V	C520 C521 C522 C525 C526	1-124-903-11 1-102-244-00 1-107-662-11	CERAMIC CHIP ELECT CERAMIC ELECT	1MF 220PF 22MF	10% 10% 20% 10% 20%	500V 50V 50V 500V 250V
C072 C353 C354 C355 C356	1-163-231-11		15PF	10% 5% 5% 20% 20%	50V 50V 50V 50V 50V	C527 C528 C529 C530 C531	1-162-116-00 1-164-161-11 1-128-551-11 1-137-366-11 1-126-965-11	CERAMIC CHIP ELECT FILM	680PF 0.0022MF 22MF 0.0022MF 22MF	20%	2KV 50V 25V 50V 50V
C357 C358 C359 C363 C364	1-124-902-00 1-164-232-11 1-126-933-11 1-164-232-11	ELECT CERAMIC CHIP ELECT CERAMIC CHIP	0.47MF 0.01MF 100MF 0.01MF	20% 10% 20% 10%	50V 50V 16V 50V	C532 C537 C539 C540	1-126-965-11 1-126-941-11 1-126-935-11 1-123-024-21	ELECT ELECT ELECT ELECT	22MF 470MF 470MF 33MF	20% 20% 20%	50V 25V 16V 160V
C365 C366 C367 C368		FILM		10% 10% 5% 5% 5%	50V 50V 50V 50V 50V	C541 C545 C561 C563 C564	1-128-560-11 1-106-387-00 1-126-967-11 1-126-923-11 1-124-903-11	MYLAR ELECT ELECT	22MF 0.068MF 47MF 220MF 1MF	20% 10% 20% 20% 20%	100V 200V 50V 10V 50V
C369 C370 C371 C372	1-163-243-11 1-163-037-11 1-163-141-00 1-124-902-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP ELECT	47PF 0.022MF 0.001MF 0.47MF	5% 10% 5% 20%	50V 50V 50V 50V	C565 C566 C568	1-126-969-11 1-126-964-11 1-137-399-11 1-104-664-11	ELECT ELECT FILM ELECT	220MF 10MF 0.1MF 47MF	20% 20% 5% 20%	50V 50V 50V 25V
C373 C375 C376 C377 C378	1-126-964-11 1-137-399-11	CERAMIC CHIP ELECT FILM	10MF 0.1MF	20% 20% 5%	50V 50V 50V 50V	C1002 C1101 C1103 C1104	1-126-964-11 1-126-768-11 1-126-965-11 1-126-967-11	ELECT ELECT ELECT	10MF 2200MF 22MF 47MF	20% 20% 20% 20%	50V 16V 50V 16V
C378 C379 C380	1-136-244-11 1-164-232-11 1-126-935-11	CERAMIC CHIP	0.1MF 0.01MF 470MF	5% 10% 20%	50V 50V 16V	C1105 C1106 C1107 C1108	1-126-967-11 1-126-964-11 1-163-037-11 1-124-903-11	ELECT CERAMIC CHIP	47MF 10MF 0.022MF 1MF	20% 20% 10% 20%	16V 50V 50V 50V



Les composants identifies par une trame et une marque \triangle sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The componants identified by shading and mark $\hat{\Lambda}$ are critical for safety.
Replace only with part number specified.

							picce portant to the	тного оросию.	specifica.
REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C1109	1-126-964-11	ELECT	10MF	20%	50V	D356 D360	8-719-110-17	DIODE 1SS133T-7 DIODE RD10ESB2	2
C1110 C1111		CERAMIC CHIP CERAMIC CHIP		0.5PF 0.5PF	50V 50V	D362 D462		DIODE 1SS133T-7 DIODE 1SS133T-7	
C1112 C1238	1-163-227-11 1-136-165-00	CERAMIC CHIP FILM	10PF 0.1MF	0.5PF 5%	50V 50V	D501	8-719-109-89	DIODE RD5.6ESB	2
C1239	1-124-903-11	ELECT	1MF	20%	50V	D502 D503		DIODE ERC06-155 DIODE ERC06-155	
C1240 C1244	1-124-903-11 1-124-902-00		1MF 0.47MF	20% 20%	50V 50V	D504 D505	8-719-900-26	DIODE ERD29-08. DIODE GP08D	
C1245 C1261	1-124-902-00 1-126-967-11	ELECT	0.47MF 47MF	20% 20%	50V 16V	D506		DIODE GP08D	
C1262	1-126-967-11	ELECT	47MF	20%	16V	D507 D515	8-719-991-33	DIODE ISS133T-7 DIODE EL1Z	<i>1</i> 7
C1263 C1264	1-124-903-11 1-124-903-11		1MF 1MF	20% 20%	50V 50V	D516 D518	8-719-991-33	DIODE 1SS133T-7 DIODE 1SS133T-7	
C1265 C1266	1-136-165-00 1-107-701-11	FILM	0.1MF 47MF	5% 20%	50V 16V		8-719-302-43		•
C1267	1-136-165-00		0.1MF	5%	50V	D520 D521	8-719-991-33	DIODE ISS133T-7 DIODE MTZJ-7.51	
C1268	1-124-903-11		1MF	20%	50V	D530	8-719-979-85	DIODE EGP20G	•
C1269 C1270		CERAMIC CHIP		20% 10%	50V 50V	D531		DIODE EGP20G	
C1351 C1352	1-163-251-11 1-126-933-11	CERAMIC CHIP ELECT	100PF 100MF	5% 20%	50V 16V	D534 D561	8-719-908-03	DIODE EL1Z DIODE GP08D	3.5
C1353		CERAMIC CHIP		10%	50V	D562 D1102	8-719-982-24	DIODE ISS133T-1 DIODE MTZJ-33A	A.
C1354 C1401	1-124-902-00		0.47MF	20%	50V	D1103		DIODE RD5.6ESE	
C1402 C1403	1-126-964-11 1-124-902-00		10MF 0.47MF	20% 20%	50V 50V	D1241 D1242	8-719-110-17	DIODE RD10ESB DIODE RD10ESB	2
C1404	1-165-319-11	CERAMIC CHIP	0.1MF		50V	D1246 D1247		DIODE RD10ESB DIODE RD10ESB	
C1405 C1406		CERAMIC CHIP CERAMIC CHIP			50V 50V	D1248	8-719-981-99	DIODE MTZJ-3.3	
C1407 C1408	1-165-319-11	CERAMIC CHIP CERAMIC CHIP	0.1MF	10%	50V 50V	D1261 D1262		DIODE RD10ESB DIODE RD10ESB	
C1409		CERAMIC CHIP			50V	D1263 D1264	8-719-110-17	DIODE RD10ESB DIODE RD10ESB	2
C1410 C1411	1-164-161-11	CERAMIC CHIP CERAMIC CHIP	0.0022MF	10%	50V 50V		0		_
C1412 C1413	1-124-925-11 1-124-925-11	ELECT	2.2MF 2.2MF	20% 20%	50V 50V			<ferrite bead<="" td=""><td>></td></ferrite>	>
C1414		CERAMIC CHIP		10%	16V	FB501 FB502			NDUCTOR 0.45UH NDUCTOR 1.1UH
C1415 C1416	1-126-965-11 1-126-933-11	ELECT	22MF 100MF	20% 20%	50V 16V	FB503			NDUCTOR 1.1UH
C1417 C1420	1-126-965-11		22MF	20%	50V 25V	1 1 1 1		<ic></ic>	
C1420	1-104-003-11	CERAMIC CHIP	0.47WII		23 4	10001	0 752 060 11	IC CXP85640-004	•
		<filter bloc<="" td=""><td>K></td><td></td><td></td><td>IC001 IC002</td><td>8-759-354-28</td><td>IC ST24C02FM6T</td><td></td></filter>	K>			IC001 IC002	8-759-354-28	IC ST24C02FM6T	
CM305	1-473-548-11	FILTER BLOCK	, COMB			IC003 IC351	8-752-076-08	IC SBX1790-51 IC CXA2025S	
						IC461		IC TDA2009A	
		<connector:< td=""><td></td><td></td><td></td><td>IC501 IC561</td><td>8-759-980-58</td><td>IC NJM2903M IC TDA8172</td><td></td></connector:<>				IC501 IC561	8-759-980-58	IC NJM2903M IC TDA8172	
CN351 CN461	* 1-564-507-11	PLUG, CONNEC	CTOR 4P			IC1261 IC1401	8-759-369-39	IC MM1311AD IC BH3856FS-E2	
CN501 CN503	* 1-564-507-11	CONNECTOR P PLUG, CONNEC	CTOR 4P			IC1402	8-759-100-96	IC uPC4558G2	
CN1103	1-573-979-21	CONNECTOR, I	BOARD TO	BOAR	RD 11P			<jack></jack>	
CN1641	* 1-564-515-11	PLUG, CONNEC	CTOR 12P			J1232		JACK BLOCK, P	
		<diode></diode>				J1234	1-774-750-11	JACK BLOCK, P	IN
D001	8-719-991-33	DIODE ISS1337	Γ-77					<chip conduc<="" td=""><td>TOR></td></chip>	TOR>
D002 D003		DIODE RD5.6ES DIODE 1SS1337				JR001	1-216-295-91	CONDUCTOR, C	НІР
D004 D005		DIODE RD10ES DIODE 1SS1331				JR351 JR352		CONDUCTOR, C	
D006		LED UNIT				JR1264 JR1351	1-216-295-91	CONDUCTOR, C	HIP
D011 D013	8-719-983-20	DIODE MTZJ-T				JR1352		CONDUCTOR, C	
D014 D015	8-719-991-33	B DIODE ISS1337 B DIODE ISS1337	Γ-77			JR4101 JR4108	1-216-295-91	CONDUCTOR, C	HIP
D353		3 DIODE 1881337				JR4110 JR4114	1-216-295-91	CONDUCTOR, C CONDUCTOR, C	HIP
٠ ددول	0-117-771-32	ו מנוממו שטטוע	- / /			JK4114	1-210-277-71	COMPOCION, C	

The componants identified by shading and mark <u>A</u> are critical for safety. Replace only with part number specified.

Les composants identifies par une trame et une marque extstyle extstyle



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION		REMARK
JR4116 JR4121		CONDUCTOR, CHIP CONDUCTOR, CHIP <coil></coil>		R007 R009 R010 R011 R012	1-216-073-00 1-216-037-00 1-216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 59 330 59 4.7K 59	% 1/10W % 1/10W % 1/10W
L001 L002 L003 L004 L352	1-408-421-00 1-410-470-11 1-410-470-11	INDUCTOR 100UH INDUCTOR 100UH INDUCTOR 10UH INDUCTOR 10UH INDUCTOR 100UH		R013 R014 R015 R016 R019	1-216-065-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE CARBON	4.7K 59 10K 59	% 1/10W % 1/10W % 1/10W
L461 L501 L502 L503 L511	1-409-861-11 1-412-552-11 1-406-677-11	INDUCTOR 10UH COIL, HORIZONTAL LINEA INDUCTOR 2.2mH COIL, CHOKE 10mH COIL, CHOKE 15mH	RITY	R020 R023 R024 R025 R026	1-216-089-91 1-216-085-00 1-216-121-91	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	47K 59 33K 59 1M 59	6 1/10W 6 1/10W 6 1/10W
L517 L1101 L1102 L1401	1-408-421-00 1-410-470-11	INDUCTOR 2.2mH INDUCTOR 100UH INDUCTOR 10UH INDUCTOR 100UH		R028 R029 R030 R032 R034	1-249-417-11 1-216-025-91 1-249-425-11 1-247-815-91 1-247-815-91	METAL GLAZE CARBON CARBON	1K 59 100 59 4.7K 59 220 59 220 59	6 1/10 W 6 1/4 W 6 1/4 W
PS461 /	1-532-984-91	<ic link=""> LINK, IC (2A/90V)</ic>		R035 R036 R037 R038 R039	1-216-049-91	METAL GLAZE METAL GLAZE METAL GLAZE	1K 59	% 1/10W % 1/10W % 1/10W
Q001 Q002 Q003 Q004 Q010	8-729-422-27 8-729-422-27 8-729-216-22	<transistor> TRANSISTOR 2SA1162-G TRANSISTOR 2SD601A-Q TRANSISTOR 2SD601A-Q TRANSISTOR 2SA1162-G TRANSISTOR 2SD601A-O</transistor>		R044 R046 R047 R048 R049	1-216-049-91 1-247-815-91 1-249-417-11 1-249-417-11 1-249-417-11	CARBON CARBON	1K 59 220 59 1K 59 1K 59 1K 59	6 1/4W 6 1/4W 6 1/4W
Q011 Q012 Q013 Q014 Q015	8-729-422-27 8-729-422-27 8-729-422-27 8-729-422-27	TRANSISTOR 2SD601A-Q TRANSISTOR 2SD601A-Q TRANSISTOR 2SD601A-Q TRANSISTOR 2SD601A-Q TRANSISTOR 2SD601A-Q		R051 R052 R053 R054 R055	1-216-061-00 1-216-061-00	CARBON METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	3.3K 59 3.3K 59	6 1/10W 6 1/10W 6 1/10W
Q016 Q017 Q301 Q302 Q303	8-729-422-27 8-729-216-22 8-729-216-22 8-729-216-22	TRANSISTOR 2SD601A-Q TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G		R056 R057 R058 R059 R060	1-249-417-11 1-216-033-00 1-216-047-91	METAL GLAZE CARBON METAL GLAZE METAL GLAZE METAL GLAZE	1K 59 220 59 820 59	6 1/4W 6 1/10W 6 1/10W
Q354 Q356 Q358 Q461 Q462	8-729-216-22 8-729-422-27 8-729-422-27	TRANSISTOR 2SD601A-Q TRANSISTOR 2SA1162-G TRANSISTOR 2SD601A-Q TRANSISTOR 2SD601A-Q TRANSISTOR 2SA1162-G		R061 R062 R063 R064 R065	1-216-065-00		4.7K 59	6 1/10W 6 1/10W 6 1/4W
Q501 Q502 Q503 Q511 Q512	8-729-016-32 8-729-422-27 8-729-422-27	TRANSISTOR 2SD774-34 TRANSISTOR 2SC4927-01 TRANSISTOR 2SD601A-Q TRANSISTOR 2SD601A-Q TRANSISTOR 2SC4159-E		R066 R067 R068 R069 R070	1-247-815-91 1-249-413-11 1-247-815-91 1-247-815-91 1-247-815-91	CARBON CARBON CARBON	220 59 470 59 220 59 220 59 220 59	% 1/4W % 1/4W % 1/4W
Q561 Q562 Q563 Q1102 Q1103	8-729-422-27 8-729-105-08 8-729-119-78	TRANSISTOR 2SD601A-Q TRANSISTOR 2SD601A-Q TRANSISTOR 2SA1330-O6 TRANSISTOR 2SC2785-HFE TRANSISTOR 2SD601A-Q		R071 R072 R073 R074 R075	1-216-033-00 1-216-033-00	CARBON METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	220 59 220 59	% 1/10W % 1/10W % 1/10W
Q1231 Q1232 Q1261 Q1262 Q1263	8-729-422-27 8-729-216-22 8-729-216-22	TRANSISTOR 2SD601A-Q TRANSISTOR 2SD601A-Q TRANSISTOR 2SD601A-Q TRANSISTOR 2SA1162-G TRANSISTOR 2SD601A-Q		R076 R077 R078 R079 R080	1-216-033-00 1-249-417-11 1-216-033-00	METAL GLAZE METAL GLAZE CARBON METAL GLAZE METAL GLAZE	220 59 1K 59 220 59	% 1/10W % 1/4W % 1/10W
		<resistor></resistor>		R081 R082 R083		METAL GLAZE METAL GLAZE CARBON		6 1/10W
R001 R002	1-216-045-00 1-247-815-91	METAL GLAZE 680 5	5% 1/10W 5% 1/4W	R084 R087		METAL GLAZE		6 1/10W
R003 R004 R005	1-216-097-91	METAL GLAZE 100K 55 METAL GLAZE 1M 55	% 1/10W 6% 1/10W 6% 1/4W	R092 R097 R099		CARBON METAL GLAZE METAL GLAZE		6 1/10W

KV-27S20/27S25/29RS20/29RS20C/29RS25/ RM-Y135 RM-Y136 RM-Y135 RM-Y135 RM-Y138 29RS25C/29SD1/29PS1/32S20/32S25/34RS20C RM-Y136 RM-Y136 RM-Y136 RM-Y136 RM-Y136



• The components identified by

in this manual have been carefully factory- selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

Les composants identifies par une trame et une marque 🛦 sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The componants identified by shading and mark $ilde{\Lambda}$ are critical for safety. Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION		R	REMARK	_	REF. NO.	PART NO.	DESCRIPTION			EMARK
R131 R132		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W		R504 R505 R506	1-249-431-11	METAL OXIDE CARBON METAL OXIDE	15K	5% 5% 5%	3W F 1/4W 1W F
R133 R135 R136	1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE	10K	5% 5%	1/10W 1/10W		R507	1-249-401-11	CARBON	47	5%	1/4W
R137 R311	1-216-047-91	METAL GLAZE METAL GLAZE CONDUCTOR, C	820	5% 5%	1/10W 1/10W		R508 R509 R510 R511		CARBON METAL OXIDE		5% 5% 5%	1/4W 1/2W F 1W F
R312 R313 R314	1-216-295-91	METAL GLAZE CONDUCTOR, O METAL GLAZE	CHIP	5% 5%	1/10W 1/10W		R511 R512 R513	1-216-450-00	METAL OXIDE	82	5% 5%	2W F 2W F
R353 R354	1-208-786-11	METAL GLAZE METAL GLAZE METAL GLAZE	1.5K	0.50% 5%	1/10W 1/10W 1/10W	1	R515 R516 R517	1-216-083-00	METAL OXIDE METAL GLAZE METAL GLAZE	27K	5% 5% 5% 5%	1W F 1/10W 1/10W 1/4W
R355 R356 R361	1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE	220	5% 5% 5%	1/10W 1/10W 1/10W		R518 R519		METAL GLAZE		5%	1/10 W
R362 R363	1-216-025-91	METAL GLAZE METAL GLAZE	100	5% 5%	1/10W 1/10W 1/10W		R521 R523	1-216-073-00 1-216-075-00	METAL GLAZE METAL GLAZE	10K 12K	5% 5% 5%	1/4W 1/10W 1/10W
R364 R365 R366	1-216-105-91	METAL GLAZE METAL GLAZE METAL GLAZE	220K	5% 5% 5%	1/10W 1/10W		R524 R525		METAL GLAZE		5% 5%	1/4W 1/10W
R367 R368		METAL GLAZE		5% 5%	1/10W 1/10W 1/4W			1-208-814-11	METAL GLAZE METAL GLAZE METAL GLAZE	22K	5% 0.50%	1/10W 1/10W 1/10W
R369 R372		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W		R531 A R532		METAL GLAZE METAL GLAZE	120	0.50%	1/10W 1/10W
R373 R374 R375	1-216-125-00	METAL GLAZE METAL GLAZE METAL GLAZE	1.5M	5% 5% 5%	1/10W 1/10W 1/10W						5% 5% 5% 5%	1W F 1/10W 1/4W F 1/4W F
R376 R379	1-216-033-00	METAL GLAZE METAL GLAZE	220	5% 5%	1/10W 1/10W		R538	1-247-887-00		220K	5%	1/4W
R380 R381 R382	1-247-815-91 1-247-815-91 1-216-033-00		220 220 220	5% 5% 5%	1/4W 1/4W 1/10W		R546 R547 R549	1-215-456-00 1-215-457-00 1-215-437-00	METAL METAL	30K 33K 4.7K	1% 1% 1%	1/4W 1/4W 1/4W
R383 R384		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W		R550 A R551	1-249-377-11 1-215-873-00	METAL OXIDE	0.47 4.7K	5% 5%	1/4 W F 1W F
R385 R387 R388		CARBON METAL GLAZE METAL GLAZE		5% 5% 5%	1/4W 1/10W 1/10W		R561 R563	1-216-351-00	METAL GLAZE METAL OXIDE	1.5	5% 5% 5%	1/4 W F 1/10 W 1 W F
R389 R390	1-216-035-00	METAL GLAZE METAL GLAZE	270	5% 5%	1/10W 1/10W		R564 R565		METAL OXIDE		5% 5%	1/4W 2W F
R391 R392 R393	1-216-025-91	METAL GLAZE METAL GLAZE METAL GLAZE	100	0.50% 5% 5%	1/10W 1/10W 1/10W		R566 R567 A R568 R569	1-249-385-11 1-216-073-00	METAL GLAZE CARBON METAL GLAZE METAL GLAZE	2.2 10K	5% 5% 5% 5%	1/10W 1/4W F 1/10W 1/10W
R394 R395 R397	1-216-061-00	METAL GLAZE METAL GLAZE CARBON	3.3K	5% 5% 5%	1/10W 1/10W 1/4W		R570	1-216-089-91	METAL GLAZE METAL GLAZE	47K	5% 5%	1/10W 1/10W
R461 R462	1-216-065-00	METAL GLAZE METAL GLAZE	4.7K	5% 5%	1/10W 1/10W	9 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	R572 R573 R574	1-216-081-00 1-216-097-91	METAL GLAZE METAL GLAZE METAL OXIDE	22K 100K	5% 5% 5%	1/10W 1/10W 2W F
R463 R464 R465	1-249-435-11 1-216-097-91 1-249-413-11	METAL GLAZE	33K 100K 470	5% 5% 5%	1/4W 1/10W 1/4W		R575 R576		METAL GLAZE		5% 5%	1/10W 1/10W
R466 R467		METAL GLAZE		20% 5%	16V 1/10W		R577 R578 R579	1-216-097-91 1-208-784-11	METAL GLAZE METAL GLAZE METAL GLAZE	100K 1.2K	5% 0.50% 0.50%	1/10W 1/10W 1/10W
R469 R471 R472	1-216-069-00	METAL GLAZE METAL GLAZE METAL GLAZE	6.8K	5% 5% 5%	1/10W 1/10W 1/10W		R580 R1009	1-249-441-11 1-216-033-00	CARBON METAL GLAZE	100K 220	5% 5%	1/4W 1/10W
R473 R475	1-249-398-11 1-249-430-11		27 12 K	5% 5%	1/4W 1/4W		R1010 R1101 R1102	1-216-049-91	METAL GLAZE METAL GLAZE METAL OXIDE	1K	5% 5% 5%	1/10W 1/10W 2W F
R476 R477 R478	1-249-430-11 1-249-398-11	CARBON	12K 27	5% 5%	1/4W 1/4W	Ψ.	R1103	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W
R478 R479 R480	1-249-418-11 1-249-418-11 1-249-385-11	CARBON	1.2K 1.2K 2.2	5% 5% 5%	1/4W	F F	R1104 R1105 R1106 R1107	1-216-689-11 1-216-049-91	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	39K 1K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W
R481 R482	1-249-385-11 1-249-421-11	CARBON	2.2 2.2K	5% 5%	1/4W	F	R1108	1-216-073-00	METAL GLAZE	10K	5% 5%	1/10W 1/10W
R483 R501 R502		CARBON METAL GLAZE METAL GLAZE		5% 5% 5%	1/4W 1/10W 1/10W		R1109 R1110 R1111	1-216-019-00	METAL GLAZE METAL GLAZE METAL GLAZE	56	5% 5%	1/10W 1/10W
R503	1-249-426-11		5.6K	5%	1/4W	F	R1115 R1117		METAL GLAZE		5% 5% 5%	1/10W 1/10W 1/4W
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REF. NO.	PART NO.	DESCRIPTION		REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
R1118 R1120 R1121 R1122 R1123	1-216-035-00 1-216-115-00	CARBON 4.7I METAL GLAZE 2.2I METAL GLAZE 270 METAL GLAZE 560 METAL GLAZE 390	5% 5%	1/4W 1/10W 1/10W 1/10W 1/10W	R1424 R1425	1-247-807-31 1-247-807-31	CARBON <switch></switch>	100 100	5% 5%	1/4W 1/4W
R1125 R1126 R1127 R1128 R1130	1-216-035-00 1-216-115-00 1-216-039-00	METAL GLAZE 2.2k METAL GLAZE 270 METAL GLAZE 560 METAL GLAZE 390 METAL GLAZE 2.2k	5% K 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	\$001 \$002 \$003 \$004 \$005	1-692-431-21 1-692-431-21 1-692-431-21 1-692-431-21	SWITCH, TACT SWITCH, TACT SWITCH, TACT SWITCH, TACT SWITCH, TACT	ILE ILE ILE ILE		
R1234 R1243 R1244 R1245 R1246	1-216-113-00		K 5% 5% K 5%	1/4W 1/4W 1/10W 1/10W 1/10W	\$006 \$007 \$501	1-692-431-21	SWITCH, TACT SWITCH, TACT SWITCH, LEVE <transformi< td=""><td>ILE R</td><td></td><td></td></transformi<>	ILE R		
R1247 R1248 R1254 R1255 R1256	1-216-065-00 1-216-113-00 1-216-049-91	METAL GLAZE 470 METAL GLAZE 4.7N METAL GLAZE 470 METAL GLAZE 1K METAL GLAZE 470	5% K 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		N 1-424-545-22	TRANSFORME TRANSFORME TRANSFORME	R, FERRITI	E (PMT) RYBACI	
R1257 R1258 R1259 R1260 R1261	1-216-061-00 1-216-097-91 1-216-061-00	METAL GLAZE 1K METAL GLAZE 3.3F METAL GLAZE 100 METAL GLAZE 3.3F METAL GLAZE 100	K 5%	1/10W 1/10W 1/10W 1/10W 1/10W	TU102	% 8-598-341 -00	<tuner> TUNER BTF-W</tuner>	A405		
R1262 R1264 R1266 R1272 R1277	1-216-025-91 1-216-025-91	METAL GLAZE 100 METAL GLAZE 100 METAL GLAZE 100 METAL GLAZE 100 CARBON 220	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/4W	X001 X353 X354	1-567-505-11	<pre><crystal> VIBRATOR, CR OSCILLATOR, O OSCILALTOR, O</crystal></pre>	CRYSTAL		
R1278 R1280 R1282 R1284 R1286	1-216-025-91 1-247-807-31	METAL GLAZE 100 METAL GLAZE 100	5% 5% 5% 5% 5%	1/4W 1/10W 1/10W 1/4W 1/10W			A BOARD, CO	MPLETE		****
R1287 R1288 R1290 R1291 R1292	1-247-807-31 1-216-043-91 1-216-045-00	METAL GLAZE 1K CARBON 100 METAL GLAZE 560 METAL GLAZE 680 METAL GLAZE 4.78	5% 5% 5% 5% 5%	1/10W 1/4W 1/10W 1/10W 1/10W			(KV-32S25(U)/ CASE, SHIELD SCREW (M3X10	·		
R1293 R1294 R1295 R1296 R1351	1-216-049-91 1-216-049-91	METAL GLAZE 4.7N METAL GLAZE 1K METAL GLAZE 1K METAL GLAZE 100 CARBON 220	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/4W	C001 C003 C005 C009 C010	1-104-760-11 1-124-903-11 1-126-967-11	CERAMIC CHIE CERAMIC CHIE ELECT ELECT CERAMIC CHIE	0.047MF 1MF 47MF	5% 10% 20% 20%	50V 50V 50V 50V 50V
R1352 R1353 R1354 R1355 R1356	1-216-025-91		5% 5% 5% 5% 5%	1/4W 1/4W 1/10W 1/10W 1/10W	C011 C012 C013 C023 C028	1-163-017-00 1-164-005-11 1-163-017-00 1-163-125-00	CERAMIC CHIR CERAMIC CHIR CERAMIC CHIR CERAMIC CHIR CERAMIC CHIR	0.0047MF 0.47MF 0.0047MF 220PF		50V 25V 50V 50V 50V
R1357 R1358 R1359 R1360 R1361	1-247-807-31 1-216-025-91 1-216-065-00 1-216-063-91	METAL GLAZE 100 METAL GLAZE 4.7k METAL GLAZE 3.9k		1/10W 1/4W 1/10W 1/10W 1/10W	C029 C035 C036 C051 C053	1-163-227-11 1-163-237-11 1-163-231-11 1-164-161-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	10PF 27PF 15PF 0.0022MF	0.5PF 5% 5%	50V 50V 50V 50V 50V
R1362 R1402 R1404 R1407 R1411	1-249-429-11 1-249-429-11 1-216-073-00 1-216-073-00	CARBON 10K METAL GLAZE 10K METAL GLAZE 10K	5% 5% 5%	1/4W 1/4W 1/10W 1/10W	C061 C062 C063 C068 C071		CERAMIC		20%	50V 50V 16V 50V 50V
R1412 R1413 R1414 R1415 R1418	1-216-089-91 1-216-089-91 1-216-025-91 1-216-081-00	METAL GLAZE 22K METAL GLAZE 47K METAL GLAZE 47K METAL GLAZE 100 METAL GLAZE 22K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	C072 C353 C354 C355 C356	1-163-231-11		15PF	10% 5% 5% 20% 20%	50V 50V 50V 50V 50V
R1419 R1420 R1421	1-216-089-91	METAL GLAZE 47K METAL GLAZE 47K METAL GLAZE 100	5%	1/10W 1/10W 1/10W	C357 C358	1-124-902-00 1-164-232-11	ELECT CERAMIC CHIP	0.47MF 0.01MF	20% 10%	50V 50V



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							piece portant le n	umero specifie.	specified.		
REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION		ļ	REMARK
C359 C360 C361	1-126-933-11 1-124-902-00 1-124-902-00	ELECT ELECT	100MF 0.47MF 0.47MF	20% 20% 20%	16V 50V 50V	C532 C537 C539 C540	1-126-965-11 1-126-941-11 1-126-935-11 1-123-024-21	ELECT ELECT	22MF 470MF 470MF 33MF	20% 20% 20%	50V 25V 16V 160V
C362 C363 C364 C365 C366	1-164-232-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.01MF	20% 10% 10% 10% 5%	50V 50V 50V 50V 50V	C541 C545 C561 C563 C564	1-128-560-11 1-106-387-00 1-126-967-11 1-126-923-11 1-124-903-11	MYLAR ELECT ELECT	22MF 0.068MF 47MF 220MF 1MF	20% 10% 20% 20% 20%	100V 200V 50V 10V 50V
C367 C368 C369 C370 C371	1-163-037-11		0.022MF	5% 5% 5% 10% 5%	50V 50V 50V 50V 50V	C565 C566 C568 C571	1-126-969-11 1-126-964-11 1-137-399-11 1-104-664-11	ELECT ELECT FILM	220MF 10MF 0.1MF 47MF	20% 20% 20% 5% 20%	50V 50V 50V 50V 25V
C372 C373 C376 C377	1-124-902-00 1-124-903-11 1-126-964-11 1-137-399-11	ELECT ELECT	0.47MF 1MF 10MF 0.1MF	20% 20% 20% 5%	50V 50V 50V 50V	C1002 C1101 C1103 C1104	1-126-964-11 1-126-768-11 1-126-965-11 1-126-967-11	ELECT ELECT	10MF 2200MF 22MF 47MF	20% 20% 20% 20%	50V 16V 50V 16V
C378 C379 C380 C383	1-136-244-11 1-164-232-11 1-126-935-11 1-137-399-11	CERAMIC CHIP ELECT	0.1MF 0.01MF 470MF 0.1MF	5% 10% 20% 5%	50V 50V 16V 50V	C1105 C1106 C1107	1-126-967-11 1-126-964-11	ELECT ELECT CERAMIC CHIP	47MF 10MF	20% 20% 10%	16V 50V 50V
C385 C386 C387 C388	1-164-182-11	CERAMIC CHIP CERAMIC CHIP ELECT	0.0033MF		50V 50V 50V 50V	C1109 C1110 C1111 C1112	1-126-964-11 1-163-227-11 1-163-227-11		10MF 10PF 10PF	20% 0.5PF 0.5PF 0.5PF	50V 50V 50V 50V
C390 C391 C392 C462	1-124-903-11 1-163-017-00 1-163-251-11	ELECT CERAMIC CHIP CERAMIC CHIP	1MF 0.0047MF 100PF	20% 10% 5%	50V 50V 50V	C1236 C1237 C1238 C1239	1-136-165-00 1-136-165-00 1-124-903-11	FILM ELECT	0.1MF 0.1MF 1MF	5% 5% 20%	50V 50V 50V 50V
C463 C466 C468 C470	1-124-925-11 1-124-925-11 1-104-666-11 1-104-664-11 1-124-925-11	ELECT ELECT ELECT	2.2MF 2.2MF 220MF 47MF 2.2MF	20% 20% 20% 20% 20%	50V 50V 25V 25V 50V	C1240 C1241 C1242 C1243 C1244	1-124-903-11 1-136-165-00 1-124-903-11 1-124-902-00	FILM ELECT ELECT	1MF 0.1MF 1MF 1MF' 0.47MF	20% 5% 20% 20% 20%	50V 50V 50V 50V 50V
C471 C472 C473 C474 C475	1-104-666-11 1-136-173-00 1-136-169-00 1-126-942-61 1-136-169-00	FILM FILM ELECT	220MF 0.47MF 0.22MF 1000MF 0.22MF	20% 5% 5% 20% 5%	25V 50V 50V 25V 50V	C1245 C1245 C1261 C1262 C1263	1-124-902-00 1-124-902-00 1-126-967-11 1-124-903-11	ELECT ELECT	0.47MF 0.47MF 47MF 47MF 1MF	20% 20% 20% 20% 20%	16V 16V 50V
C476 C477 C501 C502	1-126-942-61 1-126-942-61 1-102-110-00	ELECT ELECT CERAMIC	1000MF 1000MF 220PF 0.47MF	20% 20% 10%	25V 25V 50V	C1264 C1265 C1266	1-124-903-11 1-136-165-00 1-126-967-11	ELECT . ELECT	1MF 0.1MF 47MF	20% 5% 20%	50V 50V 16V
C503 C504 C505	1-102-212-00 1-102-002-00	CERAMIC CHIP CERAMIC CERAMIC	330PF 820PF 680PF	20% 10% 10% 10%	50V 50V 500V 500V	C1267 C1268 C1269 C1270		ELECT ELECT CERAMIC CHIP		5% 20% 20% 10%	50V 50V 50V 50V
C506 C507 A C508	1-106-383-00 1-162-116-51 1-102-244-00 1-162-116-00	CERAMIC CERAMIC	0.047MF 680PF 220PF 680PF	10% 10% 10%	200V 2KV 500V 2KV	C1351 C1352 C1353 C1354 C1401	1-126-933-11 1-163-037-11	CERAMIC CHIP CONDUCTOR, C	100MF 0.022MF	5% 20% 10%	50V 16V 50V
C513 A	1-106-367-00 1-115-460-11 1-130-895-51 1-104-844-11 1-106-343-00	FILM FILM FILM	0.056MF 0.62MF	10% 3% 5% 5%	100V 1.2KV 400V 200V	C1402 C1403 C1404 C1405 C1406	1-126-964-11 1-124-902-00 1-165-319-11 1-165-319-11	ELECT	10MF 0.47MF 0.1MF 0.1MF	20% 20%	50V 50V 50V 50V
C516 C517 C518 C519	1-105-343-00 1-115-461-11 1-107-649-11 1-106-395-00 1-162-815-11	FILM ELECT MYLAR	2MF 2.2MF 0.15MF 47PF	5% 20% 10% 5%	200V 250V 200V 500V	C1407 C1408 C1409 C1410	1-165-319-11 1-164-161-11 1-164-161-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.1MF 0.0022MF 0.0022MF	10%	50V 50V 50V 50V 50V
C520 C521 C522 C525 C526	1-164-645-11 1-164-161-11 1-124-903-11 1-102-244-00 1-107-662-11	CERAMIC CHIP ELECT CERAMIC	1000PF 0.0022MF 1MF 220PF 22MF	10% 10% 20% 10% 20%	500V 50V 50V 500V 250V	C1411 C1412 C1413 C1414	1-164-161-11 1-124-925-11 1-124-925-11 1-164-489-11	CERAMIC CHIP ELECT ELECT CERAMIC CHIP	0.0022MF 2.2MF 2.2MF 0.22MF	10% 20% 20% 10%	50V 50V 50V 16V
C527 C528 C529 C530 C531	1-162-116-00 1-164-161-11 1-128-551-11 1-137-366-11 1-126-965-11	CERAMIC CHIP ELECT FILM	680PF 0.0022MF 22MF 0.0022MF 22MF	20%	2KV 50V 25V 50V 50V	C1415 C1416 C1417 C1420 C1501	1-126-965-11 1-126-933-11 1-126-965-11 1-164-005-11 1-115-462-11	ELECT CERAMIC CHIP	22MF 100MF 22MF 0.47MF 0.12MF	20% 20% 20% 5%	50V 16V 50V 25V 200V

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REF. NO.	PART NO.	DESCRIPTION REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
		<filter block=""></filter>	FB502 FB503		FERRITE BEAD INDUCTOR 1.10 FERRITE BEAD INDUCTOR 1.10	
CM305	1-467-554-21	FILTER BLOCK, COMB			<ic></ic>	
CN461 CN501	* 1-564-507-11 * 1-580-798-11	<connector> PLUG, CONNECTOR 6P PLUG, CONNECTOR 4P CONNECTOR PIN (DY) 6P</connector>	IC001 IC002 IC003 IC351 IC461	8-759-354-28 8-747-905-11 8-752-076-08	IC CXP85640-004S IC ST24C02FM6TR IC SBX1790-51 IC CXA2025S IC TDA2009A	
CN1103 CN1641	1-573-979-21 * 1-564-515-11	PLUG, CONNECTOR 4P CONNECTOR, BOARD TO BOARD 11P PLUG, CONNECTOR 12P CONNECTOR, BOARD TO BOARD 20P	IC501 IC561 IC1001 IC1261 IC1401	8-759-980-58 8-752-058-68 8-759-366-78	IC NJM2903M IC TDA8172 IC CXA1315M IC MM1313AD IC BH3856FS-E2	
		<diode></diode>	IC1402	8-759-100-96	IC uPC4558G2	
D001 D002 D003 D004 D005	8-719-109-89 8-719-991-33 8-719-110-17	DIODE 1SS133T-77 DIODE RD5.6ESB2 DIODE 1SS133T-77 DIODE RD10ESB2 DIODE 1SS133T-77	J1232 J1233 J1234	1-774-749-11	<jack> TERMINAL BLOCK, S JACK BLOCK, PIN JACK BLOCK, PIN</jack>	
D006 D011 D013 D014	8-719-991-33 8-719-991-33	DIODE MTZJ-T-77-4.3C DIODE 1SS133T-77 DIODE 1SS133T-77	TROO!	1 216 205 01	<chip conductor=""></chip>	
D015 D353 D356 D360 D362	8-719-991-33 8-719-991-33 8-719-110-17	DIODE 1SS133T-77 DIODE 1SS133T-77 DIODE 1SS133T-77 DIODE RD10ESB2 DIODE 1SS133T-77	JR001 JR1351 JR1352 JR4101 JR4108	1-216-295-91 1-216-295-91 1-216-295-91	CONDUCTOR, CHIP CONDUCTOR, CHIP CONDUCTOR, CHIP CONDUCTOR, CHIP CONDUCTOR, CHIP	
D368 D462 D501 D502 D503	8-719-991-33 8-719-991-33 8-719-109-89 8-719-945-80	DIODE 1SS133T-77 DIODE 1SS133T-77 DIODE RD5.6ESB2 DIODE ERC06-15S DIODE ERC06-15S	JR4110 JR4114 JR4116 JR4121	1-216-295-91 1-216-295-91	CONDUCTOR, CHIP CONDUCTOR, CHIP CONDUCTOR, CHIP CONDUCTOR, CHIP	
D504	8-719-900-26	DIODE ERD29-08J			<coil></coil>	
D505 D506 D507 D515 D516	8-719-908-03 8-719-991-33 8-719-302-43	DIODE GP08D DIODE GP08D DIODE 1SS133T-77 DIODE EL1Z DIODE 1SS133T-77	L001 L002 L003 L004 L352	1-408-421-00 1-410-470-11 1-410-470-11	INDUCTOR 100UH INDUCTOR 100UH INDUCTOR 10UH INDUCTOR 10UH INDUCTOR 100UH	
D518 D519 D520 D521 D530	№ 719-302-43 8-719-991-33 8-719-921-63	DIODE ISS133T-77 DIODE EL1Z DIODE ISS133T-77 DIODE MTZJ-7.5B DIODE EGP20G	L461 L501 L502 L503 L511	1-409-861-11 1-412-552-11 1-406-677-11	INDUCTOR 10UH COIL, HORIZONTAL LINEARIT INDUCTOR 2.2mH COIL, CHOKE 10mH COIL, CHOKE 15mH	Y
D531 D534 D561 D562 D1102	8-719-302-43 8-719-908-03 8-719-991-33	DIODE EGP20G DIODE EL1Z DIODE GP08D DIODE 1SS133T-77 DIODE MTZJ-33A	L517 L1101 L1102 L1401	1-408-421-00 1-410-470-11	INDUCTOR 2.2mH INDUCTOR 100UH INDUCTOR 10UH INDUCTOR 100UH	
D1103 D1237 D1241 D1242 D1244	8-719-110-17 8-719-110-17 8-719-110-17	DIODE RD5.6ESB2 DIODE RD10ESB2 DIODE RD10ESB2 DIODE RD10ESB2 DIODE RD10ESB2	PS461	<u>↑</u> [-532-984-9]	<ic link=""> LINK, IC (2A/90V)</ic>	
D1245 D1246 D1247 D1248 D1261	8-719-110-17 8-719-110-17 8-719-110-17 8-719-981-99 8-719-110-17	DIODE RD10ESB2 DIODE RD10ESB2 DIODE RD10ESB2 DIODE MTZJ-3.3 DIODE RD10ESB2	Q001 Q002 Q003 Q004 Q010	8-729-422-27 8-729-422-27 8-729-216-22	<pre><transistor> 2 TRANSISTOR 2SA1162-G 7 TRANSISTOR 2SD601A-Q 7 TRANSISTOR 2SD601A-Q 2 TRANSISTOR 2SA1162-G 7 TRANSISTOR 2SD601A-Q</transistor></pre>	
D1262 D1263 D1264	8-719-110-17	DIODE RD10ESB2 DIODE RD10ESB2 DIODE RD10ESB2 <ferrite bead=""></ferrite>	Q011 Q012 Q013 Q014 Q015	8-729-422-27 8-729-422-27 8-729-422-27	TRANSISTOR 2SD601A-Q TRANSISTOR 2SD601A-Q TRANSISTOR 2SD601A-Q TRANSISTOR 2SD601A-Q TRANSISTOR 2SD601A-Q	
FB501	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	Q016		7 TRANSISTOR 2SD601A-Q	



DEE NO	DADTNO	DECORPTION		DEMARK	DEE NO	DADENIO	DEGGDIDETON			
REF. NO.	PART NO.	DESCRIPTION		REMARK	REF. NO.	PART NO.	DESCRIPTION		-	REMARK
Q017 Q301 Q302 Q303	8-729-216-22 8-729-216-22	TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S	SA1162-G SA1162-G		R057 R058 R059		CARBON METAL GLAZE METAL GLAZE		5% 5% 5%	1/4W 1/10W 1/10W
Q354 Q356 Q358 Q461 Q462	8-729-216-22 8-729-422-27 8-729-422-27	TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S	SA1162-G SD601A-Q SD601A-Q		R060 R061 R062 R063 R064	1-216-055-00 1-216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE CARBON	1.8K 4.7K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
Q501 Q502 Q503 Q511 Q512	8-729-016-32 8-729-422-27 8-729-422-27	TRANSISTOR 25 TRANSISTOR 25 TRANSISTOR 25 TRANSISTOR 25 TRANSISTOR 25 TRANSISTOR 25	SC4927-01 SD601A-Q SD601A-Q		R065 R066 R067 R068 R069	1-247-815-91 1-247-815-91 1-249-413-11 1-247-815-91 1-247-815-91	CARBON CARBON CARBON	220 220 470 220 220	5% 5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W
Q561 Q562 Q563 Q1102 Q1103	8-729-422-27 8-729-105-08 8-729-119-78	TRANSISTOR 25 TRANSISTOR 25 TRANSISTOR 25 TRANSISTOR 25 TRANSISTOR 25	SD601A-Q SA1330-O6 SC2785-HFE		R070 R071 R072 R073 R074	1-216-033-00		220	5% 5% 5% 5% 5%	1/4W 1/4W 1/10W 1/10W 1/10W
Q1231 Q1232 Q1261 Q1262 Q1263	8-729-422-27 8-729-422-27 8-729-216-22 8-729-216-22	TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S	SD601A-Q SD601A-Q SA1162-G SA1162-G		R075 R076 R077 R078 R079	1-216-033-00 1-216-033-00 1-249-417-11	METAL GLAZE METAL GLAZE METAL GLAZE CARBON METAL GLAZE	220 220 1K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/4W 1/10W
Caraca		<resistor></resistor>			R080 R081 R082	1-216-025-91 1-216-025-91	METAL GLAZE METAL GLAZE METAL GLAZE	100 100	5% 5% 5%	1/10W 1/10W 1/10W
R001 R002	1-216-045-00 1-247-815-91	METAL GLAZE	680 5% 220 5%	1/10W 1/4W	R083 R084	1-249-429-11 1-216-049-91	METAL GLAZE	10K 1K	5% 5%	1/4W 1/10W
R003 R004 R005	1-216-097-91	METAL GLAZE METAL GLAZE	100K 5%	1/10W 1/10W 1/4W	R087 R092 R097 R099				5% 5% 5% 5%	1/4W 1/4W 1/10W 1/10W
R007 R009		METAL GLAZE METAL GLAZE		1/10W 1/10W	R131		METAL GLAZE		5%	1/10W
R010 R011 R012	1-216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 5%	1/10W 1/10W 1/10W	R132 R133 R135 R136	1-216-039-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	390 10K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W
R013 R014		METAL GLAZE METAL GLAZE		1/10W 1/10W	R137		METAL GLAZE		5%	1/10W
R015 R016 R019		METAL GLAZE METAL GLAZE		1/10W 1/10W	R311 R312	1-216-049-91	CONDUCTOR, C	1K	5%	1/10W
R020		METAL GLAZE		1/4 W 1/10 W	R313 R314 R353	1-216-049-91	CONDUCTOR, O METAL GLAZE METAL GLAZE	IK	5% 0,50%	1/10W 1/10W
R023 R024 R025	1-216-089-91 1-216-085-00	METAL GLAZE METAL GLAZE METAL GLAZE	47K 5% 5% 5%	1/10 W 1/10 W	R354 R355	1-216-077-00	METAL GLAZE METAL GLAZE	15K	5% 5%	1/10W 1/10W
R026		METAL GLAZE	56 5%	1/10 W	R356 R358	1-216-033-00 1-247-815-91	METAL GLAZE CARBON		5% 5%	1/10W 1/4W
R027 R028 R029	1-249-417-11	METAL GLAZE CARBON METAL GLAZE	1K 5%	1/10W 1/4W 1/10W	R359	1-247-815-91 1-247-815-91		220	5%	1/4W
R030 R032	1-249-425-11 1-247-815-91	CARBON	4.7K 5% 220 5%	1/4W 1/4W	R360 R361 R362	1-216-025-91 1-216-025-91	METAL GLAZE METAL GLAZE	100	5% 5%	1/4W 1/10W 1/10W
R034 R035	1-247-815-91 1-247-815-91		220 5% 220 5%	1/4W 1/4W	R363 R364		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W
R036 R037 R038	1-216-049-91	METAL GLAZE METAL GLAZE METAL GLAZE	1K 5%	1/10W 1/10W 1/10W	R365 R366 R367	1-216-089-91	METAL GLAZE METAL GLAZE METAL GLAZE	47K	5% 5% 5%	1/10W 1/10W 1/10W
R039	1-247-807-31	CARBON	100 5%	1/4W	R368 R369	1-249-441-11		100K	5% 5%	1/4W 1/10W
R044 R046	1-247-815-91		220 5%	1/10W 1/4W	R372	1-216-113-00	METAL GLAZE	470K	5%	1/10W
R047 R048	1-249-417-11 1-249-417-11		1K 5% 1K 5%	1/4W 1/4W	R373 R374 R375	1-216-125-00	METAL GLAZE METAL GLAZE METAL GLAZE	1.5M	5% 5% 5%	1/10W 1/10W 1/10W
R049 R051	1-249-417-11 1-247-815-91	CARBON	1K 5% 220 5%	1/4W 1/4W	R376		METAL GLAZE METAL GLAZE		5%	1/10W 1/10W
R052 R053	1-216-061-00	METAL GLAZE	3.3K 5%	1/10W 1/10W	R379 R380	1-247-815-91		220	5% 5%	1/10W 1/4W
R054 R055		METAL GLAZE		1/10W 1/10W	R381 R382 R383		CARBON METAL GLAZE METAL GLAZE		5% 5% 5%	1/4W 1/10W 1/10W
R056		METAL GLAZE		1/10W	1 2000	1-210-079-71	MALIAL GLAZE	, IX	570	1/1044

KV-27S20/27S25/29RS20/29RS20C/29RS25/ RM-Y135 RM-Y136 RM-Y135 RM-Y135 RM-Y136 29RS25C/29SD1/29PS1/32S20/32S25/34RS20C RM-Y136 RM-Y135 RM-Y135 RM-Y135 RM-Y135 RM-Y135

The componants identified by shading and mark $\hat{\Lambda}$ are critical for safety. Replace only with part number specified.

Les composants identifies par une trame et une marque A sont critiques pour la securite Ne les remplacer que par une piece portant le numero specifie.

The components identified by
in this manual have been carefully factory- selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.



					va.	luc	Originally (useu.					
REF. NO.	PART NO.	DESCRIPTION		R	EMARK	1	REF. NO.	PART NO.	DESCRIPTION		R	EMARK	
R384	1-216-109-00	METAL GLAZE	330K	5%	1/10W		R551	1-215-873-00	METAL OXIDE	4.7K	5%	1W	F
R385	1-249-422-11		2.7K	5%	1/4W	1							
R386 R387		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W		R553 / R561	1-249-377-11	CARBON METAL GLAZE	0.47	5% 5%	1/4W 1/10W	F
R388		METAL GLAZE		5%	1/10W		R563		METAL OCAZE		5%		F
D200	1 016 067 00	METAL OLASE	F (Y)		. // 0777		R564	1-249-393-11	CARBON	10	5%	1/4W	
R389 R390		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W		R565	1-215-890-11	METAL OXIDE	470	5%	2W	F
R391	1-208-810-11	METAL GLAZE	15K	0.50%	1/10W	i	R566	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R392		METAL GLAZE		5%	1/10W			1-249-385-11		2.2	5%	1/4W	F
R393	1-216-043-91	METAL GLAZE	360	5%	1/10W		R568 R569		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W	
R394		METAL GLAZE		5%	1/10W		R570		METAL GLAZE		5%	1/10W	
R395 R397		METAL GLAZE		5%	1/10W		D 671	1 216 072 00	METAL CLASS	1077	-~		
R461	1-249-425-11 1-216-065-00	METAL GLAZE	4.7K 4.7K	5% 5%	1/4W 1/10W		R571 R572		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W	
R462		METAL GLAZE		5%	1/10W		R573		METAL GLAZE		5%	1/10W	
R463	1-249-435-11	CARRON	221/	5%	1/4W		R574		METAL OXIDE		5%		F
R464		METAL GLAZE	33K 100K	5%	1/4 W 1/10W	-	R575	1-210-113-00	METAL GLAZE	4/0K	5%	1/10W	
R465	1-249-413-11	CARBON	470	5%	1/4W		R576		METAL GLAZE		5%	1/10W	
R466 R467	1-126-933-11		100MF	20%	16V		R577		METAL GLAZE		5%	1/10W	
K407	1-210-009-00	METAL GLAZE	0.0K	5%	1/10W	į	R578 R579		METAL GLAZE METAL GLAZE		0.50% 0.50%	1/10W 1/10W	
R469		METAL GLAZE		5%	1/10W		R580	1-249-441-11		100K	5%	1/4W	
R471 R472		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W	1	R1001	1-247-807-31	CADRON	100	5%	1 / 4 3 3 7	
R473	1-249-398-11		27	5%	1/4W		R1001	1-247-807-31		100	5%	1/4W 1/4W	
R475	1-249-430-11	CARBON	12K	5%	1/4W		R1005	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R476	1-249-430-11	CARBON	12K	5%	1/4W		R1009 R1010		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W	
R477	1-249-398-11	CARBON	27	5%	1/4W		KIOIO	1-210-055-00	WILLIAL GLAZE	220	370	1/10 W	
R478	1-249-418-11		1.2K	5%		F	R1101		METAL GLAZE		5%	1/10W	_
R479 R480	1-249-418-11 1-249-385-11		1.2K 2.2	5% 5%		F	R1102 R1103		METAL OXIDE METAL GLAZE		5% 5%	2W 1/10W	F
					17-7-17	•	R1104		METAL GLAZE		5%	1/10W	
R481	1-249-385-11		2.2	5%	1/4W	F	R1105	1-216-689-11	METAL GLAZE	39K	5%	1/10W	
R482 R483	1-249-421-11 1-249-421-11		2.2K 2.2K	5% 5%	1/4W 1/4W	1	R1106	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R501	1-216-037-00	METAL GLAZE	330	5%	1/10W	j	R1107		METAL GLAZE		5%	1/10W	
R502	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W		R1108		METAL GLAZE		5%	1/10W	
R503	1-249-426-11	CARBON	5.6K	5%	1/4W	F	R1109 R1110		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W	
R504	1-215-918-00	METAL OXIDE	1.5K	5%		F	*******	1 210 017 00	METAL GEALE	50	570	1/10**	
R505	1-249-431-11		15K	5%	1/4W		RIIII		METAL GLAZE		5%	1/10W	
R506 R507	1-249-401-11	METAL OXIDE	47	5% 5%	1W 1 1/4W	F	R1115 R1117	1-216-045-00	METAL GLAZE	680 4.7K	5% 5%	1/10W 1/4W	
						4	R1118	1-249-425-11	CARBON	4.7K	5%	1/4W	
R508 R509	1-249-427-11 1-247-750-11		6.8K 680	5% 5%	1/4W 1/2W	-	R1120	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R510		METAL OXIDE		5%		F	R1121		METAL GLAZE		5%	1/10W	
R511		METAL OXIDE		5%		F	R1122		METAL GLAZE		5%	1/10W	
R512	1-215-886-11	METAL OXIDE	100	5%	2W	F	R1123 R1.125		METAL GLAZE METAL GLAZE		5% 5%	1/10W	
R513	1-216-341-11	METAL OXIDE	0.22	5%	1W	F	R1126		METAL GLAZE		5%	1/10W 1/10W	
R515		METAL GLAZE		5%	1/10W		D1107	1 016 115 00	METALL OF LOT	# C O Y C		4 /4 0377	
R516 R517	1-249-415-11	METAL GLAZE CARBON	680	5% 5%	1/10W 1/4W		R1127 R1128		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W	
R518		METAL GLAZE		5%	1/10W		R1130	1-216-057-00	METAL GLAZE		5%	1/10W	
R519	1-249-411-11	CARRON	330	5%	1/4W	1	R1234 R1240	1-249-441-11	CARBON METAL GLAZE	100K	5%	1/4W	
R521		METAL GLAZE		5%	1/4 W 1/10W	8	K1240	1-210-022-00	METAL GLAZE	13	5%	1/10W	
R523	1-216-073-00	METAL GLAZE	10K	5%	1/10W		R1241		METAL GLAZE		5%	1/10W	
R524 R525	1-249-429-11	CARBON METAL GLAZE	10K	5% 5%	1/4W 1/10W		R1242 R1243		METAL GLAZE		5%	1/10W	
R323	1-210-0/1-00	METAL GLAZE	0.2K	370	1/10W	- 1	R1243 R1244	1-249-441-11	METAL GLAZE	100K 75	5% 5%	1/4W 1/10W	
R528		METAL GLAZE		5%	1/10W		R1245	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R529 ■R530	1-208-814-11	METAL GLAZE		0.50%	1/10W 1/10W		R1246	1_216_065_00	METAL GLAZE	17 V	5%	1/10W	
⊞ R531 ∠	Ĺ	METAL GLAZE			1/10W		R1240 R1247		METAL GLAZE		5%	1/10W	
R532	1-208-760-11	METAL GLAZE	120	0.50%	1/10W		R1248	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R533	1-215-902-11	METAL OXIDE	47K	5%	1W	F	R1249 R1250		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W	
R535	1-216-101-00	METAL GLAZE		5%	1/10W	ı	11230	1-210-113-00	MILIAL OLAZE	TIVIN	5 10	1/10 W	
	1-249-377-11		0.47	5%	1/4W		R1251		METAL GLAZE		5%	1/10W	
R537 R538	1-249-377-11 1-247-887-00		0.47 220K	5% 5%	1/4W 1/4W	*	R1252 R1253		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W	
				570	11-11	ĺ	R1254		METAL GLAZE		5%	1/10W	
R546	1-215-453-00		22K	1%	1/4W		R1255		METAL GLAZE		5%	1/10W	
R547 R549	1-215-457-00 1-215-437-00		33K 4.7K	1% 1%	1/4W 1/4W		R1256	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
	1-249-377-11		0.47	5%	1/4W		R1257		METAL GLAZE		5%	1/10W	

KV-27S20/27S25/29RS20/29RS20C/29RS25/ RM-Y135 RM-Y136 RM-Y135 RM-Y135 RM-Y136 29RS25C/29SD1/29PS1/32S20/32S25/34RS20C RM-Y136 RM-Y135 RM-Y135 RM-Y135 RM-Y135 RM-Y135



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PART NO. DESCRIPTION

The componants identified by shading and mark $ilde{\Lambda}$ are critical for safety. Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION		REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
R1258 R1259 R1260	1-216-097-91	METAL GLAZE 3.3K METAL GLAZE 100K METAL GLAZE 3.3K	5% 5% 5%	1/10W 1/10W 1/10W	T501 T502		<pre><transforme pre="" transforme<=""></transforme></pre>	R, HORIZO		RIVE
R1261 R1262 R1263 R1264 R1265	1-216-025-91 1-216-025-91 1-216-025-91	METAL GLAZE 100 METAL GLAZE 100 METAL GLAZE 100 METAL GLAZE 100 METAL GLAZE 100	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	 — *** — *** — ***		TRANSFORMEI TRANSFORMEI <tuner></tuner>		YBACI	\$ -2609//X4C
R1266 R1267	1-216-295-91	METAL GLAZE 100 CONDUCTOR, CHIP	5%	1/10W	TU102	A 8-598-341-00	TUNER BTF-WA	N405		
R1268 R1270 R1273	1-216-025-91	METAL GLAZE 100 METAL GLAZE 100 METAL GLAZE 100	5% 5% 5%	1/10W 1/10W 1/10W			<crystal></crystal>			
R1274 R1277 R1278 R1280 R1282	1-247-815-91 1-247-815-91 1-216-025-91		5% 5% 5% 5% 5%	1/10W 1/4W 1/4W 1/10W 1/10W	X001 X353 X354	1-567-505-11 1-577-611-11	VIBRATOR, CR OSCILLATOR, COSCILALTOR, COSCILATOR,	CRYSTAL CERAMIC		
R1283	1-247-791-91	CARBON 22	5%	1/4W	******	*****	*****	****	*****	*****
R1284 R1286 R1287 R1288		METAL GLAZE 1K METAL GLAZE 1K	5% 5% 5% 5%	1/4W 1/10W 1/10W 1/4W			A BOARD, CO ************************************	******	D)/34RS2	20(C))
R1290 R1291 R1292	1-216-045-00 1-216-065-00	METAL GLAZE 560 METAL GLAZE 680 METAL GLAZE 4.7K	5% 5% 5%	1/10W 1/10W 1/10W			CASE, SHIELD SCREW (M3X10), P, SW (+)	
R1293 R1294		METAL GLAZE 4.7K METAL GLAZE 1K	5% 5%	1/10W 1/10W			<capacitor></capacitor>			
R1295 R1297 R1351 R1352 R1353		CARBON 220	5% 5% 5% 5%	1/10W 1/10W 1/4W 1/4W 1/4W	C001 C003 C005 C009 C010	1-104-760-11 1-124-903-11 1-126-967-11		0.047MF 1MF 47MF	5% 10% 20% 20%	50V 50V 50V 50V 50V
R1354 R1355 R1356 R1357 R1358	1-216-025-91 1-216-025-91	METAL GLAZE 220 METAL GLAZE 100 METAL GLAZE 100 METAL GLAZE 100	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/4W	C011 C012 C013 C023 C028	1-164-005-11 1-163-017-00 1-163-125-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.47MF 0.0047MF 220PF		50V 25V 50V 50V 50V
R1359 R1360 R1361 R1362 R1402	1-216-065-00 1-216-063-91	METAL GLAZE 100 METAL GLAZE 4.7K METAL GLAZE 3.9K CONDUCTOR, CHIP CARBON 10K	5% 5% 5%	1/10W 1/10W 1/10W	C029 C035 C036 C051 C053	1-163-237-11 1-163-231-11 1-164-161-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	27PF 15PF 0.0022MF	0.5PF 5% 5% 10% 10%	50V 50V 50V 50V 50V
R1404 R1407 R1411 R1412 R1413	1-216-073-00 1-216-081-00	CARBON 10K METAL GLAZE 10K METAL GLAZE 10K METAL GLAZE 22K METAL GLAZE 47K	5% 5% 5% 5%	1/4W 1/10W 1/10W 1/10W 1/10W	C061 C062 C063 C068 C071		CERAMIC		20%	50V 50V 16V 50V 50V
R1414 R1415 R1418 R1419 R1420	1-216-025-91 1-216-081-00 1-216-089-91	METAL GLAZE 47K METAL GLAZE 100 METAL GLAZE 22K METAL GLAZE 47K METAL GLAZE 47K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	C072 C353 C354 C355 C356	1-163-231-11		15PF	10% 5% 5% 20% 20%	50V 50V 50V 50V 50V
R1421 R1424 R1425		METAL GLAZE 100 CARBON 100	5% 5% 5%	1/10W 1/4W 1/4W	C357 C358 C359 C363 C364	1-126-933-11 1-164-232-11	CERAMIC CHIP	100MF 0.01MF	20% 10% 20% 10% 10%	50V 50V 16V 50V
		<switch></switch>			C365		CERAMIC CHIP		10%	50V
\$001 \$002 \$003 \$004	1-692-431-21 1-692-431-21	SWITCH, TACTILE SWITCH, TACTILE SWITCH, TACTILE SWITCH, TACTILE			C366 C367 C368 C369	1-137-399-11 1-137-399-11 1-137-399-11 1-163-243-11	FILM	0.1MF 0.1MF 0.1MF 47PF	5% 5% 5% 5%	50V 50V 50V 50V
\$005 \$006 \$007	1-692-431-21 1-692-431-21 1-692-431-21	SWITCH, TACTILE SWITCH, TACTILE SWITCH, TACTILE			C370 C371 C372 C373	1-163-141-00 1-124-902-00 1-124-903-11	ELECT	0.001MF 0.47MF 1MF	10% 5% 20% 20%	50V 50V 50V 50V
S501	1-5/2-707-11	SWITCH, LEVER			C375	1-165-319-11	CERAMIC CHIP	0.1MF		50V
					C376	1-126-964-11	ELECT	10MF	20%	50V

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REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION		I	REMARK
C377 C378 C379 C380	1-137-399-11 1-136-244-11 1-164-232-11 1-126-935-11	FILM CERAMIC CHIP	0.1MF 0.1MF 0.01MF 470MF	5% 5% 10% 20%	50V 50V 50V 16V	C1105 C1106 C1107 C1108	1-126-967-11 1-126-964-11 1-163-037-11 1-124-903-11	ELECT CERAMIC CHIP	47MF 10MF 0.022MF 1MF	20% 20% 10% 20%	16V 50V 50V 50V
C383 C385 C386 C387 C388		CERAMIC CHIP CERAMIC CHIP ELECT		5% 10% 10% 20% 20%	50V 50V 50V 50V 50V	C1109 C1110 C1111 C1112 C1238	1-163-227-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	10MF 10PF 10PF	20% 0.5PF 0.5PF 0.5PF 5%	50V 50V 50V 50V 50V
C390 C391 C392 C462 C463		CERAMIC CHIP CERAMIC CHIP ELECT		20% 10% 5% 20% 20%	50V 50V 50V 50V 50V	C1239 C1240 C1244 C1245 C1261	1-124-903-11 1-124-903-11 1-124-902-00 1-124-902-00 1-126-967-11	ELECT ELECT ELECT ELECT	1MF 1MF 0.47MF 0.47MF 47MF	20% 20% 20% 20% 20%	50V 50V 50V 50V 16V
C466 C468 C470 C471 C472	1-104-666-11 1-104-664-11 1-124-925-11 1-104-666-11 1-136-173-00	ELECT ELECT ELECT	220MF 47MF 2.2MF 220MF 0.47MF	20% 20% 20% 20% 5%	25V 25V 50V 25V 50V	C1262 C1263 C1264 C1265 C1266	1-126-967-11 1-124-903-11 1-124-903-11 1-136-165-00 1-126-967-11	ELECT ELECT ELECT FILM	47MF 1MF 1MF 0.1MF 47MF	20% 20% 20% 5% 20%	50V 50V 50V 50V 16V
C473 C474 C475 C476 C477	1-136-169-00 1-126-942-61 1-136-169-00 1-126-942-61 1-126-942-61	ELECT FILM ELECT	0.22MF 1000MF 0.22MF 1000MF 1000MF	5% 20% 5% 20% 20%	50V 25V 50V 25V 25V	C1267 C1268 C1269 C1270 C1351	1-136-165-00 1-124-903-11 1-124-903-11 1-164-232-11	FILM ELECT	0.1MF 1MF 1MF 0.01MF	5% 20% 20% 10% 5%	50V 50V 50V 50V 50V
C501 C502 C503 C504 C505	1-102-110-00 1-124-902-00 1-163-003-11 1-102-212-00 1-102-002-00	ELECT CERAMIC CHIP CERAMIC	220PF 0.47MF 330PF 820PF 680PF	10% 20% 10% 10% 10%	50V 50V 50V 500V 500V	C1352 C1353 C1354 C1401 C1402	1-126-933-11 1-163-037-11	ELECT CERAMIC CHIP CONDUCTOR, C ELECT	100MF 0.022MF	20% 10% 20% 20%	16V 50V 50V 50V
C506 C507 C508 C509 C510	1-106-383-00 1-162-116-51 1-102-244-00 1-162-116-00 1-106-367-00	CERAMIC CERAMIC CERAMIC	0.047MF 680PF 220PF 680PF 0.01MF	10% 10% 10% 10% 10%	200V 2KV 500V 2KV 100V	C1403 C1404 C1405 C1406 C1407	1-124-902-00 1-165-319-11 1-165-319-11 1-165-319-11		0.47MF 0.1MF 0.1MF 0.1MF	20%	50V 50V 50V 50V 50V
C513 🔏	1-115-460-11 1-130-895-51 1-104-844-11 1-106-343-00 1-115-461-11	FILM FILM MYLAR	0.022MF 0.056MF 0.62MF 0.001MF 2MF	3% 5% 5% 10% 5%	1.2KV 400V 200V 100V 200V	C1408 C1409 C1410 C1411 C1412	1-164-161-11 1-164-161-11 1-164-161-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.0022MF 0.0022MF 0.0022MF	10% 10%	50V 50V 50V 50V 50V
C517 C518 C519 C520 C521	1-107-649-11 1-106-395-00 1-162-815-11 1-164-645-11 1-164-161-11	MYLAR CERAMIC	2.2MF 0.15MF 47PF 1000PF 0.0022MF	20% 10% 5% 10% 10%	250V 200V 500V 500V 50V	C1413 C1414 C1415 C1416	1-124-925-11 1-164-489-11 1-126-965-11 1-126-933-11	ELECT CERAMIC CHIP ELECT ELECT	2.2MF 0.22MF 22MF 100MF	20% 10% 20% 20%	50V 16V 50V 16V
C522 C525 C526 C527 C528	1-124-903-11 1-102-244-00 1-107-662-11 1-162-116-00 1-164-161-11	CERAMIC ELECT	1MF 220PF 22MF 680PF 0.0022MF	20% 10% 20% 10% 10%	50V 500V 250V 2KV 50V	C1417 C1420 C1501	1-126-965-11 1-164-005-11 1-115-462-11	CERAMIC CHIP FILM	0.12MF	20% 5%	50V 25V 200V
C529 C530 C531 C532 C537	1-128-551-11 1-137-366-11 1-126-965-11 1-126-965-11 1-126-941-11	FILM ELECT ELECT	22MF 0.0022MF 22MF 22MF 470MF	20% 5% 20% 20% 20%	25V 50V 50V 50V 25V	CM305	1-467-554-21	<pre><filter <connector="" block,="" filter=""></filter></pre>	СОМВ		
C539 C540 C541 C545 C561	1-126-935-11 1-123-024-21 1-128-560-11 1-106-387-00 1-126-967-11	ELECT ELECT MYLAR	470MF 33MF 22MF 0.068MF 47MF	20% 20% 10% 20%	16V 160V 100V 200V 50V	CN351 CN461 CN501 CN503 CN1103	* 1-564-507-11 * 1-580-798-11 * 1-564-507-11	PLUG, CONNEC PLUG, CONNEC CONNECTOR PI PLUG, CONNEC CONNECTOR, B	TOR 4P N (DY) 6P TOR 4P	BOARI) 11P
C563 C564 C565 C566 C568	1-126-923-11 1-124-903-11 1-126-969-11 1-126-964-11 1-137-399-11	ELECT ELECT ELECT	220MF 1MF 220MF 10MF 0.1MF	20% 20% 20% 20% 5%	10V 50V 50V 50V 50V			PLUG, CONNEC <diode></diode>			
C571 C1002 C1101 C1103 C1104	1-104-664-11 1-126-964-11 1-126-768-11 1-126-965-11 1-126-967-11	ELECT ELECT ELECT	47MF 10MF 2200MF 22MF 47MF	20% 20% 20% 20% 20%	25V 50V 16V 50V 16V	D001 D002 D003 D004 D005	8-719-109-89 8-719-991-33 8-719-110-17	DIODE 1SS133T- DIODE RD5.6ES DIODE 1SS133T- DIODE RD10ESE DIODE 1SS133T-	B2 -77 32		



Les composants identifies par une trame et une marque 🛦 sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The componants identified by shading and mark \triangle are critical for safety.
Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION RE	MARK	REF. NO.	PART NO.	DESCRIPTION REMARK
D006 D011 D013	8-719-991-33	DIODE MTZJ-T-77-4.3C DIODE 1SS133T-77		JR1264 JR1351		CONDUCTOR, CHIP CONDUCTOR, CHIP
D014 D015		DIODE 1SS133T-77 DIODE 1SS133T-77		JR1352 JR4101 JR4108	1-216-295-91	CONDUCTOR, CHIP CONDUCTOR, CHIP CONDUCTOR, CHIP
D353 D356	8-719-991-33	DIODE ISS133T-77 DIODE ISS133T-77		JR4110 JR4114	1-216-295-91	CONDUCTOR, CHIP CONDUCTOR, CHIP CONDUCTOR, CHIP
D360 D362 D462	8-719-991-33	DIODE RD10ESB2 DIODE 1SS133T-77 DIODE 1SS133T-77		JR4116 JR4121	1-216-295-91 1-216-295-91	CONDUCTOR, CHIP CONDUCTOR, CHIP
D501 D502	8-719-945-80	DIODE RD5.6ESB2 DIODE ERC06-15S				<coil></coil>
D503 D504 D505	8-719-900-26	DIODE ERC06-15S DIODE ERD29-08J DIODE GP08D		L001 L002	1-408-421-00	INDUCTOR 100UH INDUCTOR 100UH
D506 D507		DIODE GP08D DIODE 1SS133T-77		L003 L004 L352	1-410-470-11	INDUCTOR 10UH INDUCTOR 10UH INDUCTOR 100UH
D515 D516 D518	8-719-991-33	DIODE EL1Z DIODE 1SS133T-77 DIODE 1SS133T-77		L461	1-410-470-11	INDUCTOR 10UH COIL, HORIZONTAL LINEARITY
	± 8-719-302-43			L502 L503	1-412-552-11 1-406-677-11	INDUCTOR 2.2mH COIL, CHOKE 10mH
D521 D530	8-719-921-63 8-719-979-85	DIODE MTZJ-7.5B DIODE EGP20G	4 0 0 0 0 0 0 0	L511	1-412-552-11	COIL, CHOKE 15mH INDUCTOR 2.2mH
D531 D534		DIODE EGP20G DIODE EL1Z	1 - 4 1 1	L1101 L1102 L1401	1-410-470-11	INDUCTOR 100UH INDUCTOR 10UH INDUCTOR 100UH
D561 D562 D1102	8-719-991-33	DIODE GP08D DIODE 1SS133T-77 DIODE MTZJ-33A				<ic link=""></ic>
D1103	8-719-109-89	DIODE RD5.6ESB2 DIODE RD10ESB2		PS461 A	1-532-984-91	LINK, IC (2A/90V)
D1241 D1242	8-719-110-17 8-719-110-17	DIODE RD10ESB2 DIODE RD10ESB2				<transistor></transistor>
D1246 D1247		DIODE RD10ESB2 DIODE RD10ESB2	8 0 8 0 0 0 0 0	Q001 Q002	8-729-216-22 8-729-422-27	TRANSISTOR 2SA1162-G TRANSISTOR 2SD601A-Q
D1248 D1261 D1262	8-719-110-17	DIODE MTZJ-3.3 DIODE RD10ESB2 DIODE RD10ESB2	6.5 to 10 to	Q003 Q004 Q010	8-729-422-27 8-729-216-22	TRANSISTOR 2SD601A-Q TRANSISTOR 2SA1162-G TRANSISTOR 2SD601A-Q
D1263 D1264	8-719-110-17	DIODE RD10ESB2 DIODE RD10ESB2	8 8 8 8 8	Q011	8-729-422-27	TRANSISTOR 2SD601A-Q
		<ferrite bead=""></ferrite>		Q012 Q013 Q014	8-729-422-27	TRANSISTOR 2SD601A-Q TRANSISTOR 2SD601A-Q TRANSISTOR 2SD601A-Q
FB501 FB502	1-410-396-41 1-410-397-21	FERRITE BEAD INDUCTOR 0.45UH FERRITE BEAD INDUCTOR 1.1UH	1 1 1 1 1 1 1 1	Q015 Q016		TRANSISTOR 2SD601A-Q TRANSISTOR 2SD601A-Q
FB503		FERRITE BEAD INDUCTOR 1.1UH		Q017 Q301 Q302	8-729-216-22 8-729-216-22	TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G
10001	0.550.000.44	<ic></ic>	\$ \$ \$ \$ \$ \$ \$	Q303	8-729-216-22	TRANSISTOR 2SA1162-G
IC001 IC002 IC003	8-759-354-28	IC CXP85640-004S IC ST24C02FM6TR IC SBX1790-51	0 10 10 10 10 10 10 10 10 10 10 10 10 10	Q354 Q356 Q358	8-729-216-22	TRANSISTOR 2SD601A-Q TRANSISTOR 2SA1162-G TRANSISTOR 2SD601A-O
IC351 IC461		IC CXA2025S IC TDA2009A	1 4 5 5 6 1 1	Q461 Q462		TRANSISTOR 2SD601A-Q TRANSISTOR 2SA1162-G
IC501 IC561 IC1261	8-759-980-58	IC NJM2903M IC TDA8172 IC MM1311AD		Q501 Q502	8-729-016-32	TRANSISTOR 2SD774-34 TRANSISTOR 2SC4927-01
IC1401 IC1402	8-759-369-39	IC BH3856FS-E2 IC uPC4558G2		Q503 Q511 Q512	8-729-422-27	TRANSISTOR 2SD601A-Q TRANSISTOR 2SD601A-Q TRANSISTOR 2SC4159-E
		<jack></jack>	0 0 0 1 1 1	Q561 Q562		TRANSISTOR 2SD601A-Q TRANSISTOR 2SD601A-Q
J1232 J1234		JACK BLOCK, PIN JACK BLOCK, PIN	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Q563 Q1102 Q1103	8-729-119-78	TRANSISTOR 2SA1330-O6 TRANSISTOR 2SC2785-HFE TRANSISTOR 2SD601A-Q
		<chip conductor=""></chip>	1 1 1 1 1 1 1 1	Q1231 Q1232		TRANSISTOR 2SD601A-Q TRANSISTOR 2SD601A-Q
JR001 JR351 JR352	1-216-295-91	CONDUCTOR, CHIP CONDUCTOR, CHIP CONDUCTOR, CHIP	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			



REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION		F	REMARK
Q1261 Q1262 Q1263	8-729-216-22	TRANSISTOR 25 TRANSISTOR 25 TRANSISTOR 25	SA1162-G			R079 R080		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W
						R081	1-216-025-91	METAL GLAZE	100	5%	1/10W
		<resistor></resistor>				R082 R083	1-216-025-91	METAL GLAZE	100 10K	5% 5%	1/10W 1/4W
D001	1 016 045 00		600	~~	4 /4 0777	R084	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R001 R002	1-216-045-00	METAL GLAZE		5% 5%	1/10W 1/4W	R087	1-247-815-91	CARBON	220	5%	1/4W
R003	1-216-097-91	METAL GLAZE	100K 5	5%	1/10W	R092	1-249-429-11		10 K	5%	1/4W
R004 R005	1-216-121-91 1-247-815-91	METAL GLAZE		5% 5%	1/10W 1/4W	R097 R099		METAL GLAZE METAL GLAZE		5% 5%	1/10W
				, 10		R131		METAL GLAZE		5% 5%	1/10W 1/10W
R007 R009		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W	R132	1-216-115-00	METAL GLAZE	560K	5%	1/10W
R010	1-216-037-00	METAL GLAZE	330 5	5%	1/10W	R133	1-216-039-00	METAL GLAZE	390	5%	1/10W
R011 R012		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W	R135		METAL GLAZE		5%	1/10W
ROIZ	1-210-055-00	METAL GLAZE	220	070	1/10W	R136 R137		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W
R013 R014		METAL GLAZE		5%	1/10W	R311	1-216-295-91	CONDUCTOR, C	CHIP		
R014		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W	R312	1-216-049-91	METAL GLAZE	1 K	5%	1/10W
R016		METAL GLAZE		5%	1/10W	R313	1-216-295-91	CONDUCTOR, C	CHIP		
R019	1-249-425-11	CARBON	4.7K 5	5%	1/4W	R314 R353		METAL GLAZE METAL GLAZE		5% 0.50%	1/10W 1/10W
R020		METAL GLAZE		5%	1/10W	R354		METAL GLAZE		5%	1/10W
R023 R024	1-216-089-91	METAL GLAZE METAL GLAZE	47K 5	5% 5%	1/10W 1/10W	R355	1-216-033-00	METAL GLAZE	220	5%	1/10W
R025	1-216-121-91	METAL GLAZE	1M 5	5%	1/10W	R356	1-216-033-00	METAL GLAZE	220	5%	1/10W
R026	1-216-019-00	METAL GLAZE	56 5	5%	1/10W	R361 R362		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W
R028	1-249-417-11			5%	1/4W	R363		METAL GLAZE		5%	1/10W
R029 R030	1-216-025-91	METAL GLAZE CARBON		5% 5%	1/10W 1/4W	R364	1-216-101-00	METAL GLAZE	150K	5%	1/10W
R032	1-247-815-91	CARBON	220 5	5%	1/4W	R365	1-216-105-91	METAL GLAZE	220K	5%	1/10W
R034	1-247-815-91	CARBON	220 5	5%	1/4W	R366 R367		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W
R035	1-247-815-91			%	1/4W	R368	1-249-441-11		100K	5%	1/4W
R036 R037		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W	R369	1-216-097-91	METAL GLAZE	100K	5%	1/1 0W
R038	1-216-049-91	METAL GLAZE	1K 5	5%	1/10W	R372		METAL GLAZE		5%	1/10W
R039	1-247-807-31	CARBON	100 5	5%	1/4W	R373 R374		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W
R044		METAL GLAZE		5%	1/10W	R375		METAL GLAZE		5%	1/10W
R046 R047	1-247-815-91 1-249-417-11			5% 5%	1/4W 1/4W	R376	1-216-073-00	METAL GLAZE	101/2	5%	1/10W
R048	1-249-417-11	CARBON	1K 5	5%	1/4W	R379		METAL GLAZE		5%	1/10W
R049	1-249-417-11	CARBON	1K 5	5%	1/4W	R380 R381	1-247-815-91 1-247-815-91		220 220	5% 5%	1/4W 1/4W
R051	1-247-815-91			5%	1/4W	R382		METAL GLAZE		5%	1/10W
R052 R053		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W	R383	1-216.049.91	METAL GLAZE	11/2	5%	1/10W
R054	1-216-061-00	METAL GLAZE	3.3K 5	5%	1/10W	R384	1-216-109-00	METAL GLAZE	330K	5%	1/10W
R055	1-216-097-91	METAL GLAZE	100K 5	5%	1/10W	R385 R387	1-249-422-11		2.7K	5%	1/4W
R056		METAL GLAZE	220 5	5%	1/10W	R388		METAL GLAZE		5% 5%	1/10W 1/10W
R057 R058	1-249-417-11	CARBON METAL GLAZE		% %	1/4W 1/10W	D290	1 216 067 00	METAL CLAZE	5 6V	£ 01.	1/10337
R059	1-216-047-91	METAL GLAZE	820 5	5%	1/10W	R389 R390		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W
R060	1-216-049-91	METAL GLAZE	1K 5	5%	1/10W	R391		METAL GLAZE		0.50%	1/10W
R061		METAL GLAZE		5%	1/10W	R392 R393	1-216-023-91	METAL GLAZE METAL GLAZE	560	5% 5%	1/10W 1/10W
R062 R063		METAL GLAZE METAL GLAZE		%	1/10W	D204					
R064	1-247-815-91			5% 5%	1/10W 1/4W	R394 R395		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W
R065	1-247-815-91	CARBON		5%	1/4W	R397	1-249-425-11	CARBON	4.7K	5%	1/4W
R066	1-247-815-91		220 5	5%	1/4W	R461 R462		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W
R067 R068	1-249-413-11 1-247-815-91	CARBON	470 5	5%	1/4W						
R069	1-247-815-91			5% 5%	1/4W 1/4W	R463 R464	1-249-435-11 1-216-097-91	METAL GLAZE	33K 100K	5% 5%	1/4W 1/10W
R070	1-247-815-91	CARBON		5%	1/4W	R465	1-249-413-11	CARBON	470	5%	1/4W
R071	1-247-815-91	CARBON	220 5	5%	1/4W	R466 R467	1-126-933-11 1-216-069-00	METAL GLAZE	100MF 6.8K	20% 5%	16V 1/10W
R072 R073	1-216-033-00	METAL GLAZE	220 5	5%	1/10W						
R074		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W	R469 R471		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W
R075		METAL GLAZE		5%	1/10W	R472	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W
R076	1-216-033-00	METAL GLAZE	220 5	5%	1/10W	R473 R475	1-249-398-11 1-249-430-11		27 12K	5% 5%	1/4W 1/4W
R077	1-216-033-00	METAL GLAZE	220 5	5%	1/10W						
R078	1-249-417-11	CARDON	1K 5	5%	1/4W	R476	1-249-430-11	CAKBON	12K	5%	1/4 W

KV-27S20/27S25/29RS20/29RS20C/29RS25/ RM-Y135 RM-Y136 RM-Y135 RM-Y135 RM-Y136 29RS25C/29SD1/29PS1/32S20/32S25/34RS20C RM-Y136 RM-Y135 RM-Y135 RM-Y136 RM-Y136



• The components identified by
in this manual have been carefully factory- selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

Les composants identifies par une trame et une marque A sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The componants identified by shading and mark \triangle are critical for safety. Replace only with part number specified.

	value originally used.							umero specifie.	specified.	
REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION		REMARK
R477 R478 R479 R480 R481 R482 R483 R501		CARBON CARBON CARBON CARBON CARBON CARBON METAL GLAZE		5% 5% 5% 5% 5% 5%	1/4W 1/4W F 1/4W F 1/4W F 1/4W F 1/4W 1/4W 1/10W	R1105	1-216-689-11 1-216-049-91 1-216-065-00 1-216-073-00 1-216-019-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	39K 56 1K 56 4.7K 56 10K 56	% 1/10W % 1/10W % 1/10W
R502 R503 R504 R505 R506	1-249-426-11 1-215-918-00 1-249-431-11 1-215-861-00	METAL OXIDE CARBON METAL OXIDE	5.6K 1.5K 15K 47	5% 5% 5% 5%	1/10W 1/4W F 3W F 1/4W 1W F		1-216-045-00 1-249-425-11 1-249-425-11 1-216-057-00	CARBON METAL GLAZE	680 59 4.7K 59 4.7K 59 2.2K 59	% 1/10W % 1/10W % 1/4W % 1/4W % 1/10W
R507 R508 R509 R510 R511 R512	1-215-885-00	CARBON	68	5% 5% 5% 5% 5%	1/4W 1/4W 1/2W F 1W F 2W F 2W F	R1121 R1122 R1123 R1125 R1126 R1127	1-216-115-00 1-216-039-00 1-216-057-00 1-216-035-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	560K 390 55 2.2K 55 270 55	% 1/10W % 1/10W % 1/10W % 1/10W % 1/10W % 1/10W
R513 R515 R516 R517 R518	1-216-083-00 1-216-057-00 1-249-415-11	METAL OXIDE METAL GLAZE METAL GLAZE CARBON METAL GLAZE	27K 2.2K 680	5% 5% 5% 5%	1W F 1/10W 1/10W 1/4W 1/10W	R1128 R1130 R1234 R1243 R1244 R1245	1-216-057-00 1-249-441-11 1-249-441-11 1-216-022-00		2.2K 5: 100K 5: 100K 5: 75 5:	% 1/10W % 1/10W % 1/4W % 1/4W % 1/10W % 1/10W
R519 R521 R523 R524 R525	1-216-073-00 1-249-429-11 1-216-071-00	METAL GLAZE METAL GLAZE	10K 10K 8.2K	5% 5% 5% 5% 5%	1/4W 1/10W 1/10W 1/4W 1/10W	R1246 R1247 R1248 R1254 R1255 R1256	1-216-065-00 1-216-113-00 1-216-065-00 1-216-113-00 1-216-049-91	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 5 470K 5 4.7K 5 470K 5 1K 5	% 1/10W % 1/10W % 1/10W % 1/10W % 1/10W % 1/10W
R529	1-208-814-11 1-208-760-11	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL OXIDE	22K 120	0.50% 0.50% 5%	1/10W 1/10W 1/10W	R1257 R1258 R1259 R1260 R1261	1-216-049-91 1-216-061-00 1-216-097-91 1-216-061-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 5 3.3K 5 100K 5 3.3K 5	% 1/10W % 1/10W % 1/10W % 1/10W % 1/10W % 1/10W
R535 R536 R537 R538 R546		METAL GLAZE CARBON CARBON CARBON		5% 5% 5% 5%	1/10W 1/4W F 1/4W F 1/4W	R1262 R1264 R1266 R1267 R1268	1-216-025-91 1-216-025-91 1-216-025-91 1-216-295-91	METAL GLAZE METAL GLAZE METAL GLAZE CONDUCTOR, C METAL GLAZE	100 5 100 5 100 5 CHIP	% 1/10W % 1/10W % 1/10W % 1/10W
R547 R549 R550 R551	1-215-457-00 1-215-437-00 1-249-377-11 1-215-873-00	METAL METAL	33K 4.7K 0.47 4.7K	1% 1% 5% 5%	1/4W 1/4W 1/4W F 1W F	R1270 R1272	1-216-025-91 1-216-025-91	METAL GLAZE METAL GLAZE METAL GLAZE CARBON	100 5 100 5 100 5 220 5	% 1/10W % 1/10W % 1/10W % 1/4W % 1/4W
R561 R563 R564 R565	1-216-073-00 1-216-351-00 1-249-393-11 1-215-890-11	METAL GLAZE METAL OXIDE	10 K 1.5 10 470	5% 5% 5% 5%	1/10W 1W F 1/4W 2W F	R1280 R1282 R1284 R1286 R1287	1-216-025-91 1-216-025-91 1-247-807-31 1-216-049-91	METAL GLAZE METAL GLAZE	100 5 100 5 100 5 1K 5	% 1/10W % 1/10W % 1/4W % 1/10W % 1/10W
R567 R568 R569 R570	1-249-385-11 1-216-073-00 1-216-073-00 1-216-089-91		2.2 10K 10K 47K	5% 5% 5% 5%	1/4W F 1/10W 1/10W 1/10W	R1288 R1290 R1291 R1292 R1293	1-247-807-31 1-216-043-91 1-216-045-00 1-216-065-00		100 5 560 5 680 5 4.7K 5	% 1/4W % 1/10W % 1/10W % 1/10W % 1/10W
R572 R573 R574 R575	1-216-081-00 1-216-097-91 1-216-365-00 1-216-113-00	METAL GLAZE METAL GLAZE METAL OXIDE METAL GLAZE METAL GLAZE	22K 100K 0.47 470K	5% 5% 5% 5%	1/10W 1/10W 2W F 1/10W	R1294 R1295 R1351 R1352 R1353	1-216-049-91	METAL GLAZE METAL GLAZE CARBON CARBON	1K 5 1K 5 220 5 220 5	% 1/10W % 1/10W % 1/4W % 1/4W % 1/4W
R577 R578 R579 R580 R1009	1-216-097-91 1-208-784-11 1-208-842-11 1-249-441-11	METAL GLAZE METAL GLAZE METAL GLAZE	100K 1.2K 330K 100K	5% 0.50% 0.50% 5%	1/10W 6 1/10W	R1354 R1355 R1356 R1357 R1358	1-216-033-00 1-216-025-91 1-216-025-91	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	220 5 100 5 100 5 100 5	% 1/10W % 1/10W % 1/10W % 1/10W % 1/10W
R1010 R1101 R1102 R1103	1-216-033-00 1-216-049-91 1-215-900-11	METAL GLAZE METAL GLAZE METAL OXIDE METAL GLAZE	220 1K 22K	5% 5% 5% 5%	1/10W 1/10W 2W F 1/10W	R1359 R1360 R1361	1-216-025-91 1-216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE	100 5 4.7K 5	% 1/10W % 1/10W % 1/10W

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REF. NO.	PART NO.	DESCRIPTION		R	REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
R1362 R1402	1-216-295-91 1-249-429-11	CONDUCTOR, C	CHIP 10K	5%	1/ 4W	C617 C641	1-113-915-51 1-126-943-11		0.001MF 2200MF	20% 20%	250V 25V
R1404 R1407 R1411 R1412 R1413	1-216-073-00 1-216-081-00	CARBON METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 22K	5% 5% 5% 5% 5%	1/4W 1/10W 1/10W 1/10W 1/10W	C642 C643 C646 C647 C648	1-126-952-11 1-107-641-11 1-126-933-11 1-128-551-11 1-126-933-11	ELECT ELECT ELECT	1000MF 220MF 100MF 22MF 100MF	20% 20% 20% 20% 20%	16V 160V 16V 25V 16V
R1414 R1415 R1418 R1419 R1420	1-216-025-91 1-216-081-00 1-216-089-91	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100 22K 47K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	C651 C652 C653 C654 C655	1-137-366-11 1-106-351-00 1-107-636-11 1-164-625-11 1-164-625-11	MYLAR ELECT CERAMIC	0.0022MF 0.0022MF 10MF 680PF 680PF	5% 20% 10% 10%	50V 200V 160V 500V 500V
R1421 R1424 R1425	1-216-025-91 1-247-807-31 1-247-807-31		100 100 100	5% 5% 5%	1/10W 1/4W 1/4W	C656 C657 C690 C691	1-164-625-11 1-164-625-11 1-164-645-11 1-164-645-11	CERAMIC CERAMIC	680PF 680PF 1000PF 1000PF	10% 10% 10% 10%	500V 500V 500V 500V
		<switch></switch>						<connector></connector>			
\$001 \$002 \$003 \$004 \$005	1-692-431-21 1-692-431-21 1-692-431-21	SWITCH, TACT: SWITCH, TACT: SWITCH, TACT: SWITCH, TACT: SWITCH, TACT:	LE LE LE			CN602	* 1-580-844-11	PIN, CONNECTO PIN, CONNECTO PLUG, CONNEC	OR (POWE		P
S006 S007		SWITCH, TACT						<diode></diode>			
S501	1-572-707-11	SWITCH, LEVEI				D603 D604	8-719-510-53 8-719-911-19 8-719-911-19	DIODE 1SS119-2 DIODE D4SB601 DIODE 1SS119-2 DIODE 1SS119-2	15 15		
T501 T502		TRANSFORMER TRANSFORMER			RIVE	D605		DIODE ISSI19-2			
		TRANSFORMER		YBACK	2609//X4C	D606 D607 D608 D609 D610	8-719-911-19 8-719-911-19 8-719-911-19	DIODE 188119-2 DIODE 188119-2 DIODE 188119-2 DIODE 188119-2 DIODE 188119-2	25 25 25		
TIMO2	F 8-598-341-00	<tuner> TUNER BTF-WA</tuner>	405			D615 D641		DIODE D2L20U DIODE RBA-100	MR		
		<crystal></crystal>				D643 D644 D645	8-719-028-45 8-719-028-45	DIODE D2L20U DIODE D2L20U DIODE D2L20U	АБ		
X001 X353 X354	1-567-505-11	VIBRATOR, CR OSCILLATOR, COSCILALTOR, COSCILALTOR, COSCILALTOR, COSCILALTOR, COSCILATOR, COSCILATOR, COSCILATOR, CR	CRYSTAL			D646 D648 D649 D650	8-719-057-52 8-719-510-02	DIODE D10SC4M DIODE EZ0150A DIODE D1NS4 DIODE D1NS4			
*****	*****	******	******	*****	*******			<fuse></fuse>			
	* A-1316-249- <i>A</i>	G BOARD, CO	*****	N/27525	(T.T.) /	F601 A		FUSE 6.3A/125V			
			27820(CNL) 29RS20(E)/ 32S20(U)/3	29RS25(1	È)/		1-333-223-11	HOLDER, FUSE	FOUL		
	4 202 054 11		32S25(CŃE		Í	To		<ferrite beal<="" td=""><td></td><td></td><td></td></ferrite>			
	4-382-854-11	<pre>SCREW (M3X10 <capacitor></capacitor></pre>), P, SW (+	•)		FB601 FB602 FB641 FB642 FB643	1-410-397-21 1-410-397-21 1-410-397-21	FERRITE BEAD FERRITE BEAD FERRITE BEAD FERRITE BEAD	INDUCTO: INDUCTO: INDUCTO:	R 1.1UH R 1.1UH R 1.1UH	I I I
C604 /	1-113-915-51 1-136-346-51 1-136-346-51 1-115-388-11 1-115-388-11	FILM FILM ELECT	0.001MF 0.22MF 0.22MF 560MF 560MF	20% 20% 20% 20% 20% 20%	250V 125V 125V 200V 200V	FB644 FB645 FB646 FB647	1-410-397-21 1-410-397-21 1-410-397-21 1-410-397-21	FERRITE BEAD FERRITE BEAD FERRITE BEAD FERRITE BEAD	INDUCTO INDUCTO INDUCTO INDUCTO	R 1.1UH R 1.1UH R 1.1UH R 1.1UH	I I I
C608 C609 C610 C611 C612	1-164-645-11 1-136-173-00 1-136-173-00 1-136-169-00 1-136-169-00	FILM FILM FILM	1000PF 0.47MF 0.47MF 0.22MF 0.22MF	10% 5% 5% 5% 5%	500V 50V 50V 50V 50V	FB648	8-749-920-58	FERRITE BEAD <ic> IC SI-3090CA</ic>		K 1.1UF	1
C613 C614 C615	1-164-645-11 1-164-645-11 1-136-759-11	CERAMIC	1000PF 1000PF 0.039MF	10% 10% 5%	500V 500V 630V	IC642 IC643	8-759-701-56 8-749-012-13	IC NJM78M05FA IC DM-58	1		



Les composants identifies par une trame et une marque \(\hat{L}\) sont critiques pour la securite. Ne les rempiacer que par une piece portant le numero specifie.

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Replace only with part number specified.

							prece ponant le n	urnero specilie.	specified.	~~~	
REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
		<coil></coil>				B 6 6 9	* * * * * * * * * * * * * * * * * * * *				
L642 L643		INDUCTOR 22U INDUCTOR 10U					* A-1316-252-A	G BOARD, C ************************************	******	C(E)/34	RS20C(E))
		<transistor></transistor>	•				4-382-854-11	SCREW (M3X)	(10), P, SW (+)	
Q601 Q602		TRANSISTOR 25						<capacitor:< th=""><th>></th><th></th><th></th></capacitor:<>	>		
Q644		TRANSISTOR 2		FE		C602 C603	1-126-963-11 ∆ 1-113-915-51		4.7MF 0.001 MF	20% 20%	50V 250V
		<resistor></resistor>				C605 C606 C607	A 1-136-346-51 1-115-388-11 1-115-388-11	ELECT	0.22MF 560MF 560MF	20% 20% 20%	300V 200V 200V
R603 R605	4 1-219-512-91 1-247-893-11	RESISTOR(SUR	GE RESIS 390K	TANT)	2.2M 1/4W	C608					
R606	1-247-893-11	CARBON	390K	5%	1/4W	C609	1-164-645-11 1-136-173-00	FILM	1000PF 0.47MF	10% 5%	500V 50V
R607 R608	<u>1-202-933-61</u> 1-216-369-00	METAL OXIDE	0.1	10% 5%	1/2W F 2W F	C610 C611	1-136-173-00 1-136-169-00		0.47MF 0.22MF	5% 5%	50V 50V
R609	1-247-791-91	CARBON	22	5%	1/4W	C612	1-136-169-00		0.22MF	5%	50V
R610 R611	1-247-791-91	CARBON	22	5% 5%	1/4W 2W F	C613	1-164-645-11		1000PF	10%	500V
R612	1-247-887-00	CARBON	220K	5%	1/4W	C614 C615	1-164-645-11 1-136-759-11	FILM	1000PF 0.039MF	10% 5%	500V 630V
R613	1-247-887-00		220K	5%	1/4W	C617 C626	<u># 1-113-915-51</u> 1-113-897-51		0.001MF 100PF	20% 10%	250V 250V
R614 R615	1-247-887-00 1-247-887-00		220K 220K	5% 5%	1/4W 1/4W	C641	1-126-943-11		2200MF	20%	25V
R616 R617	1-247-791-91 1-247-791-91	CARBON	22	5%	1/4W	C642	1-126-952-11	ELECT	1000MF	20%	16V
	1-247-791-91 1-212-958-61		22 10	5% 5%	1/4W 1/2W F	000000000000	1-107-641-11 1-126-933-11		220MF 100MF	20% 20%	160V 16V
R623	1-205-943-11	WIREWOUND	1	5%	20W	C647	1-128-551-11	ELECT	22MF	20%	25V
R641 R642	1-249-423-11 1-249-423-11	CARBON	3.3K 3.3K	5% 5%	1/4W 1/4W	C648 C651	1-126-933-11		100MF	20%	16V
R643	1-249-387-11	CARBON	3.3	5%	1/4W F	C652	1-137-366-11 1-106-351-00	MYLAR	0.0022MF 0.0022MF	5%	50V 200V
R644	1-215-882-00	METAL OXIDE	22	5%	2W F	C653 C654	1-107-636-11 1-164-625-11		10MF 680PF	20% 10%	160V 500V
R645 R646	± 1-260-304-51 1-216-369-00		10	5% 5%	1/2W 2W F	C655	1-164-625-11		680PF	10%	500V
R647	1-249-417-11	CARBON	1 K	5%	1/4W	C656	1-164-625-11	CERAMIC	680PF	10%	500V
R648 R649	1-247-887-00 1-249-425-11		220K 4.7K	5% 5%	1/4W 1/4W F	C657 C690	1-164-625-11 1-164-645-11		680PF 1000PF	10% 10%	500V 500V
R652	1-249-421-11	CARBON	2.2K	5%	1/4W	C691	1-164-645-11	CERAMIC	1000PF	10%	500V
R661 R662	± 1-249-413-91 1-249-429-11		470 10K	5% 5%	1/4W F 1/4W			<connector< th=""><th></th><th></th><th></th></connector<>			
R663	± 1-249-377-11	CARBON	0.47	5%	1/4W F	CNICOI	** 500 565 00			T	
	A 1-249-377-11		0.47	5%	1/4W F	CN601 CN602	* 1-580-844-11	PIN, CONNECT	TOR (POWE	rrch): R)	3P
R665 R666	<u>↑ 1-249-377-11</u> 1-249-377-11		0. 47 0.47	5% 5%	1/4W F 1/4W F	CN604 CN641	* 1-564-506-11 * 1-564-515-11	PLUG, CONNE PLUG, CONNE	CTOR 3P		
	å 1-249-377-11 å 1-249-377-11		0.47 0.47	5% 5%	1/4W F						
R670	д 1-249-377-11	CARBON	0.47	5%	1/4W F		•	<diode></diode>			
	∆ 1-249-377-11 ± 1-249-377-11		0.47	5% 5%	1/4W F	D601 D602		DIODE 188119 DIODE D48B6			
						D603 D604	8-719-911-19	DIODE 188119 DIODE 188119	-25		
		<relay></relay>				D605		DIODE 133119			
RY601	A, 1-755-018-11	RELAY				D606		DIODE 1SS119			
						D607 D608		DIODE 1SS119 DIODE 1SS119			
		<transforme< th=""><th>ER></th><th></th><th></th><th>D609 D610</th><th>8-719-911-19</th><th>DIODE ISS119 DIODE ISS119</th><th>-25</th><th></th><th></th></transforme<>	ER>			D609 D610	8-719-911-19	DIODE ISS119 DIODE ISS119	-25		
T601		TRANSFORMER			FT)						
		TRANSFORMER TRANSFORMER			'RT)	D615 D641		DIODE D2L200 DIODE RBA-10			
		TRANSFORMER				D643 D644	8-719-028-45	DIODE D2L201 DIODE D2L201	J		
		~THEDMISTOR				D645		DIODE D2L200			
		<thermistor:< th=""><th></th><th></th><th></th><th>D646</th><th></th><th>DIODE D10SC</th><th></th><th></th><th></th></thermistor:<>				D646		DIODE D10SC			
FHP601	A 1-809-539-21	THERMISTOR, I	OSITIVE			D648 D649		DIODE EZ0150 DIODE D1NS4			
		<varistor></varistor>				D650		DIODE DINS4			
VDBZOT	* 1 910 074 11										
V LAKOUI.	1-810-974-11	VARISION									

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REF. NO.	PART NO.	DESCRIPTION		F	REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
F601 A		<fuse> FUSE (6.3A/250) HOLDER, FUSE</fuse>				R666 R667 R668	↑ 1-249-377-11 1-249-377-11 ↑ 1-249-377-11 ↑ 1-249-377-11 ↑ 1-249-377-11	CARBON CARBON CARBON	0.47 0.47 0.47 0.47 0.47 0.47	5% 5% 5% 5% 5%	1/4W F 1/4W F 1/4W F 1/4W F 1/4W F
		<ferrite beai<="" td=""><td>)></td><td></td><td></td><td></td><td>∆ 1-249-377-11 ∆ 1-249-377-11</td><td></td><td>0.47 0.47</td><td>5% 5%</td><td>1/4W F 1/4W F</td></ferrite>)>				∆ 1-249-377-11 ∆ 1-249-377-11		0.47 0.47	5% 5%	1/4W F 1/4W F
FB601 FB602 FB641 FB642 FB643	1-410-397-21 1-410-397-21 1-410-397-21	FERRITE BEAD FERRITE BEAD FERRITE BEAD FERRITE BEAD FERRITE BEAD	INDUCTO INDUCTO INDUCTO INDUCTO	R 1.1UH R 1.1UH R 1.1UH		RY601	* 1-755-018-11	<relay></relay>			
FB644 FB645 FB646 FB647 FB648	1-410-397-21 1-410-397-21 1-410-397-21	FERRITE BEAD FERRITE BEAD FERRITE BEAD FERRITE BEAD FERRITE BEAD	INDUCTO INDUCTO INDUCTO	R 1.1UH R 1.1UH R 1.1UH		T603	∄ 1-424-220-11 ∄ 1-427-864-11	TRANSFORMEI TRANSFORMEI TRANSFORMEI TRANSFORMEI TRANSFORMEI	R, LINE FIL R, LINE FIL R, CONVER	.TER !TER (F	RT)
		<ic></ic>						<thermistor< td=""><td>></td><td></td><td></td></thermistor<>	>		
IC641 IC642 IC643		IC SI-3090CA IC NJM78M05FA IC DM-58				THP601	₫ 1-809-827-21	THERMISTOR,	POSITIVE		
								<varistor></varistor>			
L642	1 412 520 11	<coil></coil>	**			VDR601	<u>* 1-810-974-11</u>	VARISTOR			
L643		INDUCTOR 22U INDUCTOR 10U				******	******	*****	*****	*****	*****
		<transistor></transistor>					* A-1331-516-A	C BOARD, CO			
Q601 Q602 Q644 Q647	8-729-019-49 8-729-119-78	TRANSISTOR 25 TRANSISTOR 25 TRANSISTOR 25 TRANSISTOR 25	SC4834M SC2785-HF			01766	1 102 114 00	<capacitor></capacitor>	470DE	100	5011
		<resistor></resistor>				C1766 C1767 C1776	1-102-114-00 1-102-116-00 1-102-114-00	CERAMIC	470PF 680PF 470PF	10% 10% 10%	50V 50V 50V
	1-247-289-11		8.2M	5%	IW	C1777 C1786	1-102-116-00 1-102-114-00	CERAMIC	680PF 470PF	10% 10%	50V 50V
R605 R606 R607 R608	1-247-893-11 1-247-893-11 1-202-933-61 1-216-369-00	CARBON	390K 390K 0.1	5% 5% 10% 5%	1/4W 1/4W 1/2W 1 2W 1		1-102-116-00 1-102-129-00 1-126-933-11 1-107-651-11	CERAMIC ELECT	680PF 0.01MF 100MF 4.7MF	10% 10% 20% 20%	50V 50V 16V 250V
R609 R610 R611	1-247-791-91 1-247-791-91		22 22	5% 5%	1/4W 1/4W	C1795	1-102-074-00		0.001MF	10%	50V
R612 R613	1-247-887-00 1-247-887-00	CARBON	220K 220K	5% 5% 5%	2W 1 1/4W 1/4W	C1797 C1798 C1799	1-106-375-12 1-106-375-12 1-162-114-00	MYLAR	0.022MF 0.022MF 0.0047MF		200V 200V 2KV
R614 R615 R616	1-247-887-00 1-247-887-00 1-247-791-91	CARBON	220K 220K 22	5% 5% 5%	1/4W 1/4W 1/4W			<connector:< td=""><td>•</td><td></td><td></td></connector:<>	•		
R617	1-247-791-91 1-212-958-61	CARBON	22 10	5% 5%	1/4W 1/2W	CN1764	* 1-564-507-11	PLUG, CONNEC	TOR 4P		
R623 R641 R642	1-243-032-11 1-249-423-11 1-249-423-11		3.9 3.3K 3.3K	5% 5% 5%	20W 1/4W	CN1765 CN1766		TAB (CONTACT			
R643 R644	1-249-387-11		3.3	5% 5%	1/4W 1/4W 1 2W 1			<diode></diode>			
R645 A R647 R648 R649 R652	1-260-304-51 1-249-417-11 1-247-887-00 1-249-425-11 1-249-421-11	CARBON CARBON CARBON	10 1K 220K 4.7K	5% 5% 5% 5%	1/2 W 1/4W 1/4W 1/4W 1	D1761 D1762 D1763 D1771	8-719-991-33 8-719-991-33 8-719-991-33	DIODE 1SS133T DIODE 1SS133T DIODE 1SS133T DIODE 1SS133T DIODE 1SS133T	1-77 1-77 1-77		
R659 R661 A R662 R663 A	1-249-429-11 1-249-413-91 1-249-429-11 1-249-377-11 1-249-377-11	CARBON CARBON CARBON CARBON	2.2K 10K 470 10K 0.47 0.47	5% 5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W	D1783 D1790	8-719-991-33 8-719-991-33 8-719-991-33	DIODE 1SS133T DIODE 1SS133T DIODE 1SS133T DIODE 1SS133T DIODE 1SS133T	-77 -77 -77		
AND A			J.41	5%	1/4W 1	D1792	8-719-983-14	DIODE MTZJ-T-	77-3.9		

KV-27S20/27S25/29RS20/29RS20C/29RS25/ RM-Y135 RM-Y136 RM-Y135 RM-Y135 RM-Y136 29RS25C/29SD1/29PS1/32S20/32S25/34RS20C RM-Y136 RM-Y135 RM-Y136 RM-Y136





Les composants identifies par une trame et une marque $\hat{\Lambda}$ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The componants identified by shading and mark \triangle are critical for safety. Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION		Ī	REMARI	<u> </u>	REF. NO.	PART NO.	DESCRIPTION	opeomou.		REMARK	
31761 <u>A</u>	. 1-251-388-11	<jack> SOCKET, PICTU</jack>	RE TUBE				C3306 C3307 C3308 C3309 C3310	1-163-231-11 1-163-017-00	ELECT CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	15PF 0.0047MF	20% 5% 10% 10%	16V 25V 50V 50V 25V	
		<coil></coil>					C3313 C3314		CERAMIC CHIP CERAMIC CHIP			25V 25V	
L1790	1-410-667-31	INDUCTOR 22U	Н			1 1 1 1 1 1 1 1 1	C3315 C3319 C3320	1-164-346-11	CERAMIC CHIP CERAMIC CHIP	1MF	20%	16V 50V 50V	
		<transistor></transistor>	•				C3321 C3322	1-163-239-11 1-163-239-11	CERAMIC CHIP CERAMIC CHIP	33PF	5% 5%	50V 50V	
Q1761 Q1762 Q1763 Q1771	8-729-326-11 8-729-200-17 8-729-119-78	TRANSISTOR 25 TRANSISTOR 25 TRANSISTOR 25 TRANSISTOR 25	SC2611 SA1091-O SC2785-HF			1	C3323 C3324 C3325	1-163-031-11 1-126-967-11	CERAMIC CHIP	0.01MF 47MF	20%	50V 16V 25V	
Q1772		TRANSISTOR 25				1	C3326 C3327	1-163-038-91	CERAMIC CHIP CERAMIC CHIP	0.1MF		25V 25V	
Q1773 Q1781 Q1782 Q1783	8-729-119-78 8-729-326-11	TRANSISTOR 25 TRANSISTOR 25 TRANSISTOR 25 TRANSISTOR 25	SC2785-HF SC2611	E			C3328 C3329 C3330	1-126-967-11 1-126-967-11 1-163-031-11		47MF 47MF 0.01MF	20% 20%	16V 16V 50V	
Q1790	8-729-119-76	TRANSISTOR 25	SA1175-HF	E			C3331 C3332	1-126-967-11 1-104-664-11	ELECT	47MF 47MF	20% 20%	16V 25V	
		<resistor></resistor>					C3333 C3334 C3335	1-163-031-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.01MF	5%	50V 50V 25V	
R1760 R1761	1-260-105-11 1-247-807-31	CARBON	3.3K 100	5% 5%	1/2W 1/4W		C3336	1-163-038-91	CERAMIC CHIP	0.1MF		25V	
R1763 R1764 R1765	1-249-409-11 1-215-924-00 1-249-413-11	METAL OXIDE	220 15K 470	5% 5% 5%	1/4W 3W 1/4W	F	C3337 C3338 C3340	1-163-141-00 1-163-031-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.001MF 0.01MF	5%	25V 50V 50V	
R1766 R1767	1-249-393-11 1-249-425-11		10 4.7 K	5% 5%	1/4W 1/4W		C3346 C3347	1-163-251-11	CERAMIC CHIP	100PF 1MF	5% 20%	50V 50V	
R1768 R1770 R1771	1-249-417-11 1-260-105-11 1-247-807-31	CARBON CARBON	1K 3.3K 100	5% 5% 5%	1/4W 1/2W 1/4W		C3348 C3349 C3350 C3351	1-126-967-11 1-163-121-00 1-164-004-11		47MF 150PF 0.1MF	20% 5% 10%	16V 50V 25V	
R1773 R1774	1-249-409-11 1-215-924-00		220 15K	5% 5%	1/4W 3W	F F	C3331	1-103-231-11	CERAMIC CHIP	TOOPF	5%	50V	
R1775 R1776 R1777	1-249-411-11	CARBON	330 10	5% 5%	1/4W 1/4W		CN2201	* 1 7/4 01/ 11	<connector></connector>		DO 4 D	D 40D	
R1777	1-249-425-11 1-260-105-11		4.7K 3.3K	5% 5%	1/4W 1/2W		CN3301	* 1-764-816-11	CONNECTOR, B	OARD TO	BOAK.	D 20P	
R1781 R1783	1-247-807-31 1-249-409-11	CARBON CARBON	100 220	5% 5%	1/4W 1/4W	F			<ic></ic>				
R1784 R1785	1-249-411-11	CARBON	15K 330	5% 5%	3W 1/4W	F	IC3301 IC3302 IC3303	8-759-231-53	IC TDA8315T/N3 IC TA7805S IC SDA9288X	SA-T			
R1786 R1787 R1789	1-249-393-11 1-249-425-11 1-249-437-11	CARBON	10 4.7K 47K	5% 5% 5%	1/4W 1/4W 1/4W				-COII -				
R1792 R1793	1-247-815-91 1-247-863-91	CARBON	220 22K	5% 5%	1/4W 1/4W		L3301	1-408-413-00	<coil> INDUCTOR 22U</coil>	н			
R1794	1-249-417-11		1K	5%	1/4W		L3302 L3303	1-410-473-11	INDUCTOR 18UI INDUCTOR 56UI	H			
R1795 R1796 R1797	1-260-087-11 1-216-374-00 1-260-123-11	METAL OXIDE	100 2.7 100K	5% 5% 5%	1/2W 2W 1/2W	F			<transistor></transistor>	,			
							Q3301		TRANSISTOR 2S	SD601A-Q			
		**************************************	MPLETE	*****	*****	**	Q3305 Q3306 Q3307 Q3308	8-729-216-22 8-729-216-22	TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S	SA1162-G SA1162-G			
		(KV-27S25(U)/2 32S25(U)/2	29RS25(E)/		C(E)/		Q3310 Q3312 Q3313	8-729-216-22	TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S	A1162-G			
		<capacitor></capacitor>							<resistor></resistor>				
C3301 C3302	1-164-346-11	CERAMIC CHIP	1MF	10%	50V 16V		R3301		METAL GLAZE		5%	1/10W	
C3303 C3304 C3305	1-124-903-11	CERAMIC CHIP ELECT CERAMIC CHIP	1MF	20%	25V 50V 25V	1	R3302 R3303 R3304	1-216-295-91	METAL GLAZE CONDUCTOR, C METAL GLAZE	HIP	5%	1/10W	
2200	. 105 050-71	Sad inite Cilli	O.HVII		2J ¥		R3306		METAL GLAZE METAL OXIDE		5% 5%	1/10W 2W	F

The componants identified by shading and mark $\hat{\Lambda}$ are critical for safety. Replace only with part number specified.

Les composants identifies par une trame et une marque extstyle extstyle



REF. NO.	PART NO.	DESCRIPTION		REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R3307 R3308 R3309 R3310 R3311	1-216-051-00 1-216-051-00 1-216-689-11	METAL GLAZE 100K METAL GLAZE 1.2K METAL GLAZE 1.2K METAL GLAZE 39K METAL GLAZE 39K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		₫ 1-751-059-11	CORD, POWER (WITH CO 10A/125V (KV-27S20(U)/27S20(CNI 29PS1(E)/29RS20(E)/2 29SD1(E)/32S20(U)/3 32S25(U)/32S25(CNI	D)/27 S25(U)/ 29 RS25(E)/ 12S20(CND)/
R3312 R3313 R3314 R3315 R3316	1-216-041-00 1-216-041-00 1-216-041-00 1-216-053-00	METAL GLAZE 330 METAL GLAZE 470 METAL GLAZE 470 METAL GLAZE 470 METAL GLAZE 1.5K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		1-769-796-21 1-900-800-81	PLUG, F-PIN CORD, POWER (WITH CO 10A/125V (KV-29RS20C(E)/29RS25C WIRE ASSY, G2 LEAD WIRE ASSY, FOCUS	
R3319 R3321 R3322 R3323 R3324	1-216-053-00 1-216-065-00 1-216-065-00	METAL GLAZE 1.5K METAL GLAZE 1.5K METAL GLAZE 4.7K METAL GLAZE 4.7K METAL GLAZE 4.7K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		∆ 8-451-275-42	DEFLECTION YOKE (Y2 (KV-27S20(U)/27S20(CNE 29PS1(E)/29RS20(E)/ 29RS25(E)/29RS25C())/27\$25(U)/ 29R\$20C(E)/
R3326 R3327 R3328 R3329 R3330	1-216-031-00 1-216-037-00 1-216-069-00	METAL GLAZE 330 METAL GLAZE 180 METAL GLAZE 330 METAL GLAZE 6.8K METAL GLAZE 270	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W			DEFLECTION YOKE (Y3 (KV-32S20(U)/32S20(CNL 32S25(CND)/34RS20 PICTURE TUBE (M80JYV	D)/32S25(U)/ C(E))
R3331 R3332 R3337 R3338 R3339	1-216-041-00 1-216-033-00 1-216-033-00	METAL GLAZE 10K METAL GLAZE 470 METAL GLAZE 220 METAL GLAZE 220 METAL GLAZE 470	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	V901	∆ 8-733-743-05 (KV	PICTURE TUBE (M80JYV -32S20(U)/32S20(CND)/32	(KV-34RS20C(E)) /51K) S25(U)/32S25(CND))
R3340 R3341 R3342 R3343 R3346	1-216-041-00 1-216-057-00 1-216-057-00 1-216-049-91	METAL GLAZE 470 METAL GLAZE 2.2K METAL GLAZE 2.2K METAL GLAZE 1K METAL GLAZE 1K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		(PICTURE TUBE (A68KZJ)/27S25(U)/29PS1(E)/ !9RS25(E)/29SD1(E))
R3351 R3352 R3358 R3359 R3360	1-216-295-91 1-216-049-91 1-216-047-91 1-216-047-91	CONDUCTOR, CHIP METAL GLAZE 1K METAL GLAZE 820 METAL GLAZE 820 METAL GLAZE 1.5K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W	*****	ACCESSORIE	**************************************	RIALS
R3361 R3362 R3363 R3364 R3365	1-216-053-00 1-216-029-00 1-216-031-00 1-216-035-00	METAL GLAZE 1.5K METAL GLAZE 150 METAL GLAZE 180 METAL GLAZE 270 METAL GLAZE 220K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W			MANUAL, INSTRUCTION (KV-27S20(U)/27S20(CNE 32S20(CND)) MANUAL, INSTRUCTION (KV-29PS1(E)/29RS20(E)/ 29SD1(E)/34RS20C(E	D)/32S20(U)/ N 29RS20C(E)/
R3366 R3367 R3368 R3369 R3370	1-216-095-00 1-216-103-91 1-216-101-00	METAL GLAZE 220K METAL GLAZE 82K METAL GLAZE 180K METAL GLAZE 150K METAL GLAZE 470	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		3-810-687-41	MANUAL, INSTRUCTION (KV-27S25(U)/32S25(U)/3 MANUAL, INSTRUCTION (KV-29RS25(E)/29RS25C(2S25(CND)) N
R3371 R3372 R3373	1-216-041-00	METAL GLAZE 82K METAL GLAZE 470 METAL GLAZE 270	5% 5% 5%	1/10W 1/10W 1/10W		* 4-035-022-01 * 4-040-146-01	BAG, POLYETHYLENE INDIVIDUAL CARTON (KV-27S20(U)/27S25(U)) INDIVIDUAL CARTON (KV-32S20(U)/32S20(CNE	0)/32 S 25(U)/
X3301 X3302		<pre><crystal> OSCILLATOR, CRYSTAL VIBRATOR, CRYSTAL</crystal></pre>				* 4-041-255-01	32S25(CND)) BAG, PROTECTION INDIVIDUAL CARTON (KV-27S20(U)/27S25(U))	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
		**************************************		*****		* 4-049-757-11 * 4-049-758-11	INDIVIDUAL CARTON (KV-29PS1(E)/29RS20(E)/ 29RS25(E)/29RS25C(BAG, PROTECTION BAG, PROTECTION (KV-32S20(U)/32S20(CNE 32S25(CND)/34RS20(E)/29SD1(E)) D)/32S25(U)/
1	1-406-726-13 1-411-474-11	COIL, DEMAGNETIZATIO (KV-32S20(CND)/32S25(U) COIL, DEGAUSSING COIL, DEMAGNETIZATIO (KV-34RS20C(E)) MAGNET,DISK; 10mmø	/32 S2 5(CND))		* 4-052-382-11 * 4-052-383-01 * 4-052-383-11	CUSHION (UPPER) (ASS' CUSHION (UPPER) (ASS' CUSHION (LOWER) (ASS' CUSHION (LOWER) (ASS' CUSHION (LEFT UPPER)	Y) SY) SY)
	1-452-094-00 1-504-531-11	MAGNET,ROTATABLE DI SPEAKER (13.1X6.2CM)	SK ; 15	mmø		4-052-386-11	CUSHION (RIGHT UPPER	t)

KV-27S20/27S25/29RS20/29RS20C/29RS25/ RM-Y135 RM-Y136 RM-Y135 RM-Y135 RM-Y136 29RS25C/29SD1/29PS1/32S20/32S25/34RS20C RM-Y136 RM-Y135 RM-Y136 RM-Y136 RM-Y136 RM-Y136

REF. NO.	PART NO.	DESCRIPTION	REMARK
	4-052-388-11	CUSHION (LEFT LOWER) CUSHION (RIGHT LOWER)	
	* 4-052-547-01	CUSHION (UPPER) (ASSY)	

052-547-01 CUSHION (UPPER) (ASSY) (KV-32S20(U)/32S20(CND)/32S25(U)/ 32S25(CND)/34RS20C(E))

*4-052-548-01 CUSHION (LOWER) (ASSY) (KV-32S20(U)/32S20(CND)/32S25(U)/ 32S25(CND)/34RS20C(E))

REMOTE COMMANDER

8-917-532-90 REMOTE COMMANDER (RM-Y135//M) (KV-27S20(U)/27S20(CND)/29PS1(E)/ 29RS20(E)/29RS20C(E)/29SD1(E)/ 32S20(U)/32S20(CND)/34RS20C(E))

4-978-977-01 POCKET, COVER (FOR RM-Y135//M)

8-917-533-90 REMOTE COMMANDER (RM-Y136//M) (KV-27S25(U)/29RS25(E)/29RS25C(E)/ 32S25(U)/32S25(CND))

4-978-977-01 POCKET, COVER (FOR RM-Y136//M)

Sony Corporation
Consumer A & V Products Company
TV & Display Products Div.